

Software Design Document

for
Want2Remember

Version 1.0 approved

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9 December 2022

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Revision History

Name	Date	Reason For Changes	Version
David Pablo	12/02/2022	Initial Access	1.0
David Pablo	12/02/2022	Cross-Reference with Past SRS	1.1
David Pablo	12/09/2022	First Draft	1.0

1. Introduction

1.1 Purpose

Want2Remember is a web application that shall assist those with cognitive impairments remember day-to-day tasks and memories. This system shall keep track of user-generated data, such as memories, to-do lists, and appointments, as well as contacts and payment information. This document shall explain the functionality, design, architecture, and requirements of the Want2Remember application.

1.2 Scope

The purpose of this document is to provide an overview of the design and development of this project, as well as the recommended procedures and available resources for developers and maintainers of Want2Remember. This document is not an expression of formal policy; it contains documentation for the Want2Remember system and generally agreed-upon best practices.

1.3 Intended Audience and Reading Suggestions

This document is for the use in the California State University of Los Angeles (CSULA) Computer Science department. This document will be covering the details of the Senior Design Project of the We2Link sponsored group. The intended audience for this project are the professors and students of CSULA, as well as the employees of We2Link.

1.4 System Overview

Want2Remember uses a component-based architecture that allows for the reusability of components so that it reduces the size and complexity of our codebase.

2. Design Considerations

2.1 Assumptions and Dependencies

Software used to support the Want2Remember application include:

- JavaScript
- ReactJS
- Github
- JIRA & Agile Development Technology
- Firebase
- Test Fairy, Test flight

Additionally, the user is expected to have a mobile device running on the minimum required operating systems (iOS 7 or above; Android Oreo (8) or above).

2.2 General Constraints

The major hurdles associated with this project are:

- Learning the JavaScript web application framework, ReactJS
- Working as a group remotely post the COVID-19 pandemic

We were given access to the Udemy course “React - The Complete Guide (incl Hooks, React Router, Redux)” to guide us through the framework and language. To collaborate, we formed sub-teams to break down the project objectives into manageable pieces. We met virtually twice weekly for status updates and sprint retrospectives and communicated via Slack/discord with our sub-team members.

In addition, there are limitations surrounding local data storage and local security. Future updates shall address these issues once we migrate to cloud storage. Using firebase to emulate the web app.

2.3 Goals and Guidelines

Want2Remember is a web application to help those with memory issues - whether they are from brain injuries, Alzheimer’s, or other cognitive impairments. The Want2Remember web app shall provide the user templates to log memories, passwords, to-do lists, medications, appointments, and other important things the user may want to remember. The user shall be able to record events and reminders from the past, present, and future.

The software features shall help facilitate the user’s ability to live independently, return to work, maintain social interaction, increase work efficiency, maintain personal safety, as well as any

other needs that may come up in development. The web app features shall also help facilitate caregiver needs, as well as improve medical support.

Due to the need for simplicity and reliability, we chose the respective technologies because of the support and modularization they offer. We take the feedback from our beta testers to refactor the code and make improvements. The hope is for Want2Remember to be a viable product and to go to market by Summer 2023.

2.4 Development Methods

Our dedicated team has spent months developing Want2Remember, building off the efforts of last year's Senior Design project. We follow their same methodology; we use the Agile Development Process. We break down tasks and assign them to sub-teams in Sprints of one-to-two-week durations. Agile architecture allows us to pivot and adapt quickly to new changes, which allows us to respond swiftly to any bug fixes or feedback from beta testers. We also visualized the task board using Atlassian's Jira software to improve workflow.

3. Architectural Strategies

3.1 Use of Particular Products

- 3.1.1 JavaScript and ReactJS: Developing with the ReactJS framework gives us the advantage of developing seamlessly for all web compatible devices. The code is written in JavaScript but is then rendered with reactjs code. ReactJS also puts emphasis on creating and reusing components within many screens of the application. This helps save time during development and encourages us to take full advantage of the utilities offered by ReactJS such as a multi-platform codebase, web app development, and fast refresh as soon as new code is saved.
- 3.1.2 Github: We use Github for version control.
- 3.1.3 Firebase: We use firebase for emulation

3.2 Reuse of Existing Software Components

- 3.2.1 This software is built off of last year's Senior Design project for We2Link. We are using their components as a basis to implement them into the web application.

3.3 Future plans for software enhancement

Several features have been marked for future development:

- Registration/Sign on
- Medication
- Customization
- Caregiver support
- Medication Tracker template
- Mobile advertisement
- Premium features

3.4 User Interface Paradigms

- 3.4.1 The user interface shall present the Home Screen upon initial access.
- 3.4.2 The system shall provide a uniform look and feel between all pages. Headings, banners, fonts, and buttons shall follow the same style guide.
- 3.4.3 All screens shall include a dynamic header component and bottom navigation bar.
 - 3.4.3.1 Bottom navigation bar shall include Home, Create, Search, and Contacts.
 - 3.4.3.2 Back button will be in the top right to return the user back to the Home Screen.

- 3.4.4 Home Screen (default screen) shall show brief overview of all existing memories.
 - 3.4.4.1 Help, settings, and filters will be in the top left corner for navigation.
 - 3.4.4.2 The Memory navigation bar shall show “All Memories” by default, with other subcategory options listed in the scroll bar to the left.
 - 3.4.4.3 Below this navigation bar, the preview of the memory shall show with date, title, category, and other relevant summary information.
 - 3.4.4.4 A button at the bottom right shall allow the user quick access to “Create,” leading them to the Create Memory Screen.
- 3.4.5 Create Screen shall show all memory templates.
 - 3.4.5.1 Memory tiles shall be labeled and color-coded in an accessibility-friendly way.
 - 3.4.5.2 Clicking on a memory tile shall lead the user into a custom template.
- 3.4.6 Search Screen shall let users filter through their memory tiles
 - 3.4.6.1 Search bar.
 - 3.4.6.2 When a user searches, the scrollable results shall display below the search bar.
- 3.4.7 Contacts Screen shall show all contacts in scrollable view.
 - 3.4.7.1 Add Contact shall be in the top right corner
 - 3.4.7.2 Search bar.
 - 3.4.7.3 Quick view shall include name, quick links to contact, and associated memories.
 - 3.4.7.4 Clicking on View More shall allow the user to see full details of that contact.
- 3.4.8 Settings Screen
 - 3.4.8.1 The settings options shall allow the user the ability to import and export JSON format memories.
 - 3.4.8.2 The user shall be able to create and reset their secured PIN.
 - 3.4.8.3 The user shall be able to send feedback.

3.5 Hardware and/or Software interface paradigms

- 3.5.1 Hardware interface paradigm
 - Device must have a display for user input /interaction.

3.6 Error detection and recovery

- 3.6.1 Implement exception handling in the codes
- 3.6.2 Debugging the software interfaces/programs
- 3.6.3 To recover the issue, discussion must be made within the group.

3.7 Memory management policy

- 3.7.1 Memory management of the software shall be managed by the framework

3.8 External databases

- 3.8.1 Cloud Firestore: We use cloud firestore to allow for compatibility with the mobile app. Cloud Firestore is a NoSQL database hosted by Google that stores data in a document-based model and allows for scalability and expansion.

3.9 Distributed data/ control over a network

N/A

3.10 Generalized approaches to control

TBD

3.11 Concurrences and Synchronization

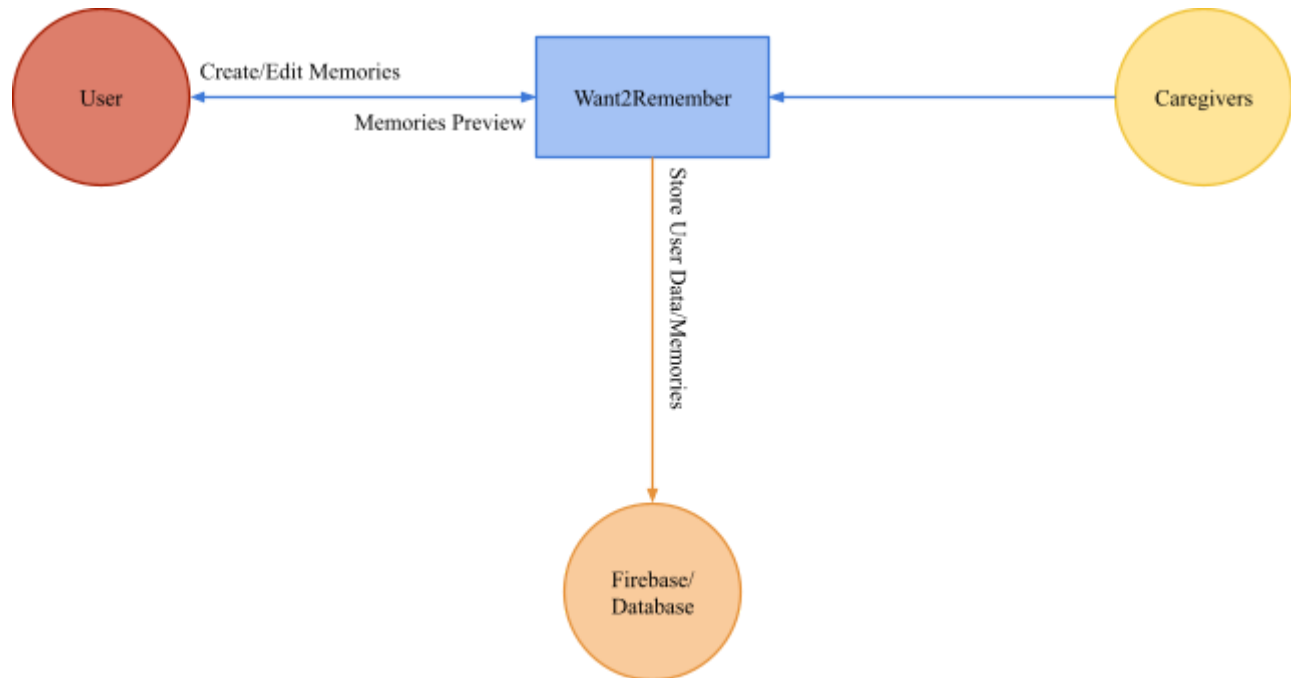
TBD

3.12 Communication mechanisms

- 3.12.1 The software shall allow the user to contact the administrators through help screen in a web application.

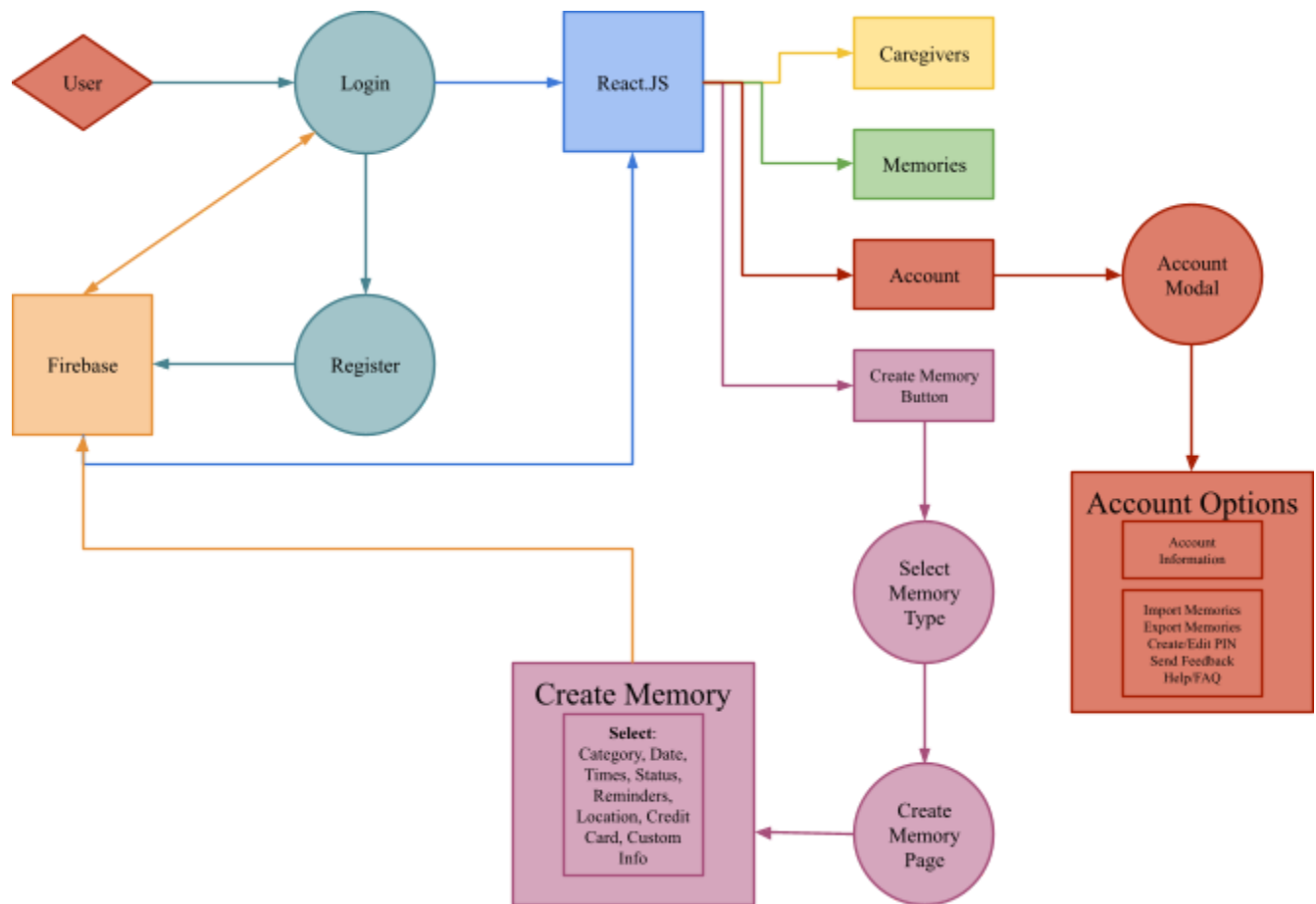
4. System Architecture

Level 0 DFD



The Want2Remember app is meant to allow users to store and create memories, while allowing for caregivers to support the user. In our implementation, we stored memories and user data in firebase. When the user interacts with the Want2Remember app, they create and edit memories. When a change is detected, a change is made in Firebase. Finally, caregivers have the ability to interact with the app to assist the user.

Level 1 DFD



When the user is directed to the login page and enters their login credentials, the data is stored into Firebase. There is also an option for the user to create a new account and login, which will also be saved. Firebase is able to store the data so it is maintained every time the user logs in. The components for the screen are created using React JS which is a Javascript library. The screens all display individual components that are imported. The screens that are created using React include the Caregivers, Memories, Account, and the Create Button screen. The account screen has a modal that displays the account information, along with several options that the user can choose from for their account. These include: Importing memories, exporting memories, creating and editing pins, sending feedback, and help/FAQ. The create memory button directs the user to a screen to view existing memories with tags. They also had the option to create a new memory through the create memory page. The create memory page has types of memories available to select and there are components that each memory will have. These components include: Category, Date, Time, Status, Reminders, Location, Credit Card, and Custom Info. The info for each component is written and stored onto Firebase each time they are edited and saved. The main reason why this layout for the DFD level 1 was chosen was because it is easy to follow the order flow of the system. The arrows clearly define the interaction and relationship between the various components and subsystems.

5. Policies and Tactics

5.1 Choice of which specific products used

- Integrated Development Environment (IDE): Visual Studio Code
- Project Management Software: Atlassian JIRA board
- Web Application Framework: ReactJS

5.2 Plans for ensuring requirements traceability

Github allows us to have version control. It enables our developers to branch off and collaborate, which is especially useful in a virtual environment.

5.3 Plans for testing the software

We are currently alpha testing this application through a firebase emulation.

6. Detailed System Design

6.1 MemoriesScreen.js

6.1.1 Definition

Memory landing page. Users will see an overview of all the memories they have created on this application.

6.1.2 Responsibilities

The home screen is responsible for the most navigation and the most detailed user interface. This is the user's first impression of the application and must be simple, have good flow, and be intuitive to use.

6.1.3 Constraints

Memories must be created before they can be displayed, filtered, searched, or edited.

6.1.4 Composition

6.1.5 Uses/Interactions

6.1.6 Resources

6.1.7 Interface/Exports

6.2 CreateScreen.js

6.2.1 Definition

6.2.2 Responsibilities

6.2.3 Constraints

6.2.4 Composition

6.2.5 Uses/Interactions

6.2.6 Resources

6.2.7 Interface/Exports

6.3 MoreDetailScreen.js

6.3.1 Definition

6.3.2 Responsibilities

6.3.3 Constraints

6.3.4 Composition

6.3.5 Uses/Interactions

6.3.6 Resources

6.3.7 Interface/Exports

6.4 ContactsScreen.js

6.4.1

6.4.2 Responsibilities

6.4.3 Constraints

6.4.4 Composition

6.4.5 Uses/Interactions

6.4.6 Resources

6.4.7 Interface/Exports

6.5 ContactDetailsScreen.js

6.5.1

6.5.2 Responsibilities

6.5.3 Constraints

6.5.4 Composition

6.5.5 Uses/Interactions

6.5.6 Resources

6.5.7 Interface/Exports

7. Detailed Lower level Component Design

7.1 QuickLookComponent

- 7.1.1 Classification**
- 7.1.2 Processing Narrative (PSPEC)**
- 7.1.3 Interface Description**
- 7.1.4 Processing Detail**
 - 7.1.4.1 Design Class Hierarchy**
 - 7.1.4.2 Restrictions/Limitations**
 - 7.1.4.3 Performance Issues**
 - 7.1.4.4 Design Constraints**
 - 7.1.4.5 Processing Detail For Each Operation**

7.2 Detail.js

- 7.2.1 Classification**
- 7.2.2 Processing Narrative (PSPEC)**
- 7.2.3 Interface Description**
- 7.2.4 Processing Detail**
 - 7.2.4.1 Design Class Hierarchy**
 - 7.2.4.2 Restrictions/Limitations**
 - 7.2.4.3 Performance Issues**
 - 7.2.4.4 Design Constraints**
 - 7.2.4.5 Processing Detail For Each Operation**

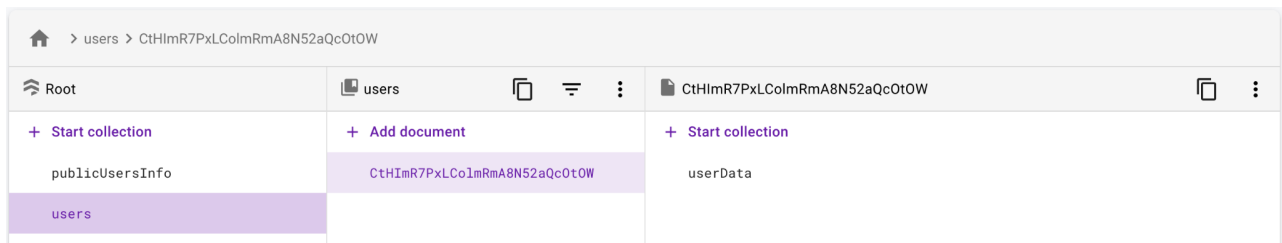
7.3 ContactQuicklook.js

- 7.3.1 Classification**
- 7.3.2 Processing Narrative (PSPEC)**
- 7.3.3 Interface Description**
- 7.3.4 Processing Detail**
 - 7.3.4.1 Design Class Hierarchy**
 - 7.3.4.2 Restrictions/Limitations**
 - 7.3.4.3 Performance Issues**
 - 7.3.4.4 Design Constraints**
 - 7.3.4.5 Processing Detail For Each Operation**

8. Database Design

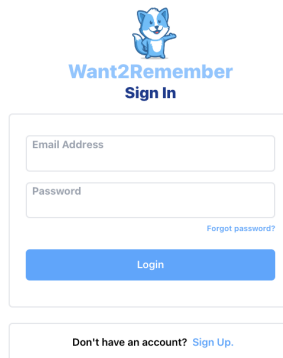
We use Cloud Firestore as our database for this project. The mobile app for Want 2 Remember also uses firebase, allowing for compatibility. Cloud Firestore is a document-based NoSQL database hosted by Google. The documents are stored in collections, which are then used to organize the data and make queries.

We organize our data into two collections: publicUsersInfo and users. The publicUsersInfo collection stores data such as the UUID to match the id to the user. The users collection stores more information about the user including private user data.



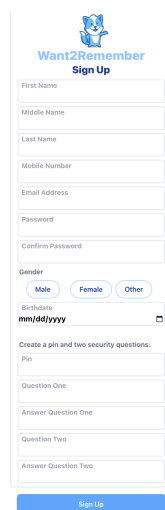
9. User Interface

- Users are introduced to the main page where they are asked to sign in or create an account. This uses the *SignIn.jsx* file inside the *Screens* folder to take care of this step.



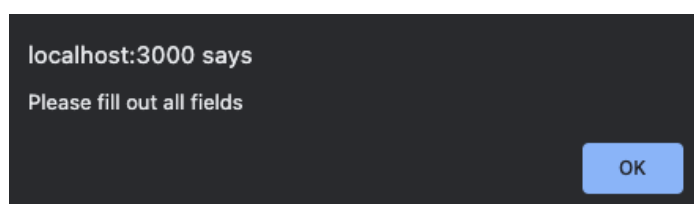
The image shows a web form titled "Want2Remember Sign In". At the top is a blue cartoon cat logo. Below the logo are two input fields: "Email Address" and "Password". A link "Forgot password?" is located to the right of the password field. A blue "Login" button is positioned below the password field. At the bottom of the form, there is a text prompt "Don't have an account?" followed by a blue link "Sign Up."

- If the user does not have an account the button “sign up” is displayed right under the login area. The user is taken to a page where they are able to enter all their credentials to create an account. This step uses the *SignUp.jsk* file in the *Screens* folder.



The image shows a web form titled "Want2Remember Sign Up". At the top is a blue cartoon cat logo. Below the logo are several input fields: "First Name", "Middle Name", "Last Name", "Mobile Number", "Email Address", "Password", and "Confirm Password". There are three radio buttons for "Gender": "Male", "Female", and "Other". Below these is a "Birthdate" field with a calendar icon and the placeholder "mm/dd/yyyy". A section titled "Create a pin and two security questions:" follows, containing fields for "Pin", "Question One", "Answer Question One", "Question Two", and "Answer Question Two". A blue "Sign Up" button is at the bottom.

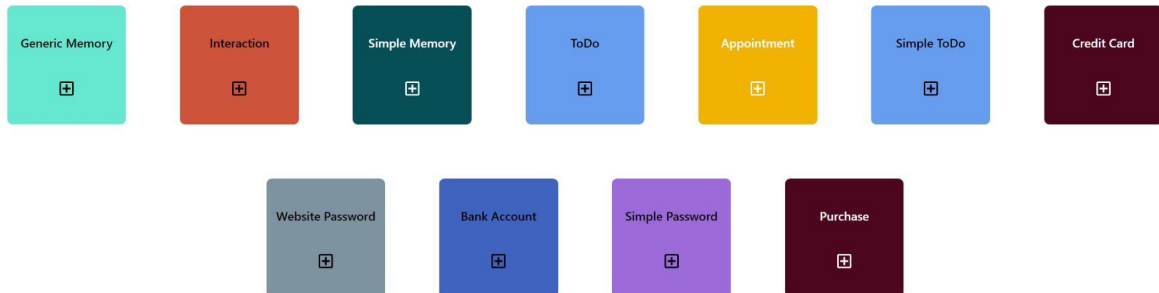
- User needs to enter all necessary information. If failed to do so, users will be presented with an error message asking them to fill out all fields.



- Once logged in, the user is then displayed with the home page where they can create a memory. The following options to click on are: Generic Memory, Interaction, Simple Memory, ToDo, Appointment, Simple ToDo, Credit Card, Website Password, Bank Account, Simple Password, Or Purchase. All these different categories have slightly different options to choose from within each one. File that takes care of this part is the *MemoryTemplateCreation.jsx* in the *Screens* folder.

[Back](#)

Create Memory



- Users are displayed with different options to apply to their New Memory. This step comes after choosing one of the few Memory options. File that takes care of this step is *index.jsx* in the *Main* folder inside the *Screens* folder.

Insert Components Below

Title

Enter Title

Select a category

See All

Fact

Event

People

Secure

Tags

Add Tags

Add Tag +

Memory Date

mm/dd/yyyy

Memory Time

3:32 PM

Time

Status

Pending

In Progress

Delayed

Stopped

Done

Reminder Date

None

Calendar

Reminder Time

None

Time

Reminder Reoccurrence

None

Reocurrence

- Provides a section that allows the users to type text for their Memory Title. The *TitlePicker.jsx* file in the *Containers* folder takes care of this step.

Title

Enter Title

- Allows users to click the category that best suits their Memory. File that is in charge of this option is *CategoryPicker.jsx* which is located in the *Containers* Folder.

Select a category

[See All](#)

Fact

Event

People

Secure

- Tags are available for the user to provide if needed. Users are shown “Add Tag+” where they are then given the ability to provide any tag they would like to use. File that takes care of this step is *TagsPicker.jsx* in the *Containers* folder.

Tags

[Add Tags](#)

Add Tag +

Tags

[Add Tags](#)

Add a Tag

X close

Enter text here then tap Add

Add

- Memory Date allows users to upload a date to their Memory. File used in this step is *DatePicker.jsx* in the *Components* Folder.

Memory Date

mm/dd/yyyy

Memory Date

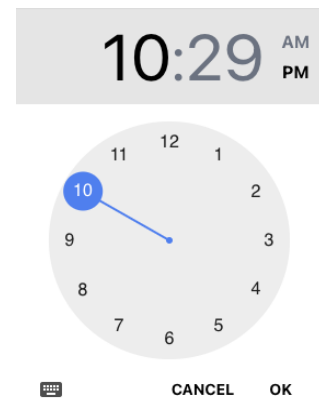
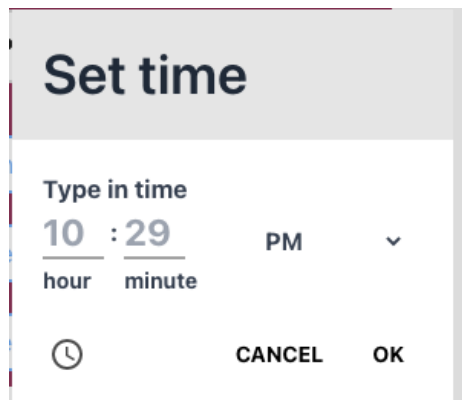
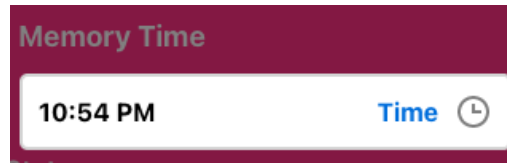
mm/dd/yyyy

December 2022

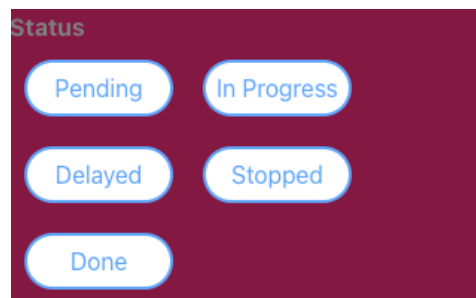
S	M	T	W	T	F	S
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

Clear Today

- Allows users to upload a time for their Memory. It has two different ways a user can interact with this feature. One of the ways is by being able to use their mouse to click and move the arm of the clock to the desired time. The second way of uploading a time is by entering the time manually. Users can change to either of the two clock options by clicking on the lower left corner where either a clock icon or keyboard icon will appear. Files used for this step is *TimePicker.jsx* in the *Components* folder.



- A status area with buttons a user can choose from. File for this feature is *StatusPicker.jsx* in the *Components* folder.



- Gives the option of setting a Reminder Date to their Memory. File for this feature is *ReminderDateTime.jsx* in the *Components* folder.

Reminder Date

None
Calendar


Date
X

«
<
December 2022
>
»

MON	TUE	WED	THU	FRI	SAT	SUN
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

Clear
Apply

- Reminder Time allows the user to enter a specific time they want to be notified of their Memory. It has two different ways a user can interact with this feature. One of the ways is by being able to use their mouse to click and move the arm of the clock to the desired time. The second way of uploading a time is by entering the time manually. Users can change to either of the two clock options by clicking on the lower left corner where either a clock icon or keyboard icon will appear. File used for this feature is *ReminderDateTime.jsx* in the *Components* folder.

Reminder Time


None
Time


Set time


Type in time


10 : 29 PM

hour minute


CANCEL
OK

10:29 AM PM




CANCEL
OK

- Reminder Recurrence provides the user to be able to have their Memory be notified to them more than once. File used for this feature is *ReminderDateTime.jsx* in the *Components* folder.

Reminder Reoccurrence

None
Reoccurrence
🕒

Set Reoccurrence:
X

None
Daily
Weekly
Monthly

- Snooze Timer provides the user the option to set a snooze time to their Memory. File used for this feature is *ReminderDateTime.jsx* in the *Components* folder.

Snooze Timer

None
Snooze Timer
🕒

Snooze Timer
X

+
+
0
0
-
-
Hours
Minutes
Never Occurs

Clear
Apply

- One Line Sample provides the option to add any text the user might want to add onto their Memory. File used for this feature is *OneLineTextPicker.jsx* in the *Components* folder.

One Line Sample

Enter Text Here

- Description Title provides the option of typing a description of the title. File used for this feature is *TextPicker.jsx* in the *Components* folder.

Description Title

Write Description Title

- Description Content provides the option to type in text any kind of description content of the user's Memory. File used for this feature is *TextPicker.jsx* in the *Components* folder.

Description Content

Write Description

- Location provides the option of attaching a location to the user's Memory. The location feature has three different options to select from: Search for Location, Manual Address, and Current Location. Search location helps the user to auto complete anything they are in search for by providing options based on what the user has typed in the search bar. Manual Address provides text boxes to type in an address. Current Location displays your current location. Once a user clicks on the button "save" for any of the location features, the location will be displayed on a map

Location

Select Location



Close ✕

📍 **Search for Location**
Search for location using Google

📍 **Manual Address**
Enter your very own manual address

📍 **Current Location**
Use your current location address

Cancel ✕ Save ✓

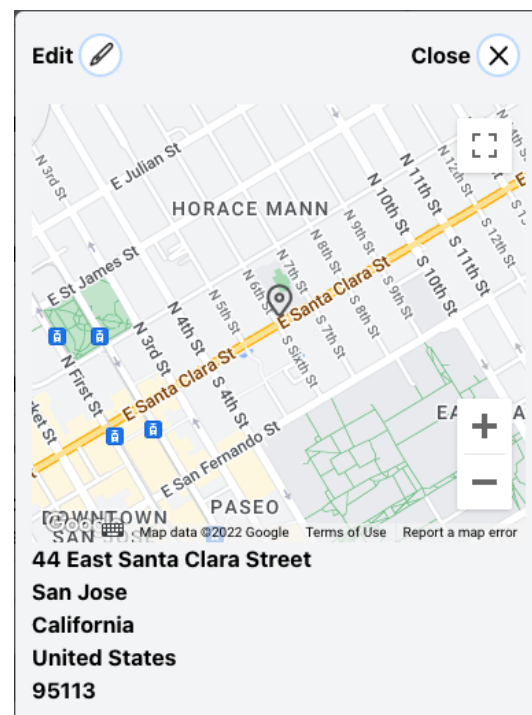
San Jose, CA, USA

San Juan Capistrano, CA, USA

San Jacinto, CA, USA

San Julian Street, Los Angeles, CA, USA

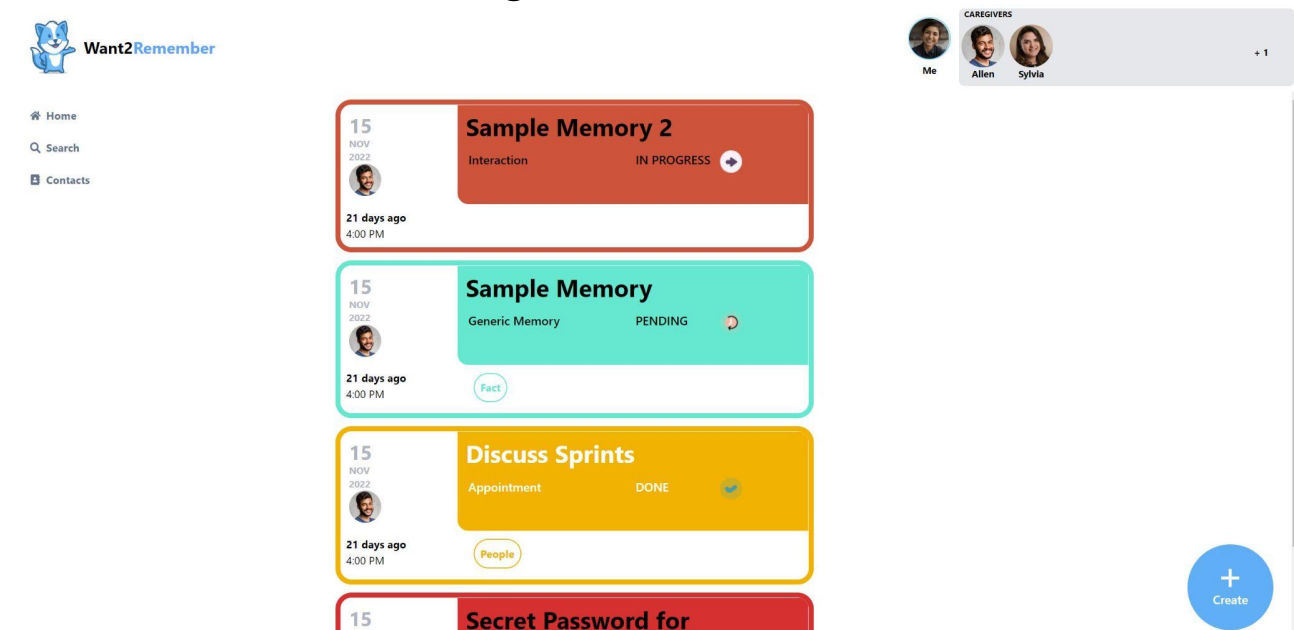
San José International Airport, Airport Parkway, San Jose, CA, USA



9.1 Overview of User Interface

When a user uses Want2Remember, they will find themselves with the tools they need to help them be able to remember events, appointments, or anything they want to be notified in the future. The user will have to create an account in order to get started and have access to these helpful features that Want2Remember offers. Once a user creates an account they will have access to their profile, either on mobile or online. Whenever a user decides to create a new Memory a user will be presented with a grid of options to choose what fits best for their memory. Each one of these memory options have slightly different features within them to fit that specific type of memory. Once a user chooses a Memory they will be presented with features that they can choose to fill out or select. These features vary from different ways of picking time, dates, location, and categories that accommodate their Memory. All the different features can be seen in detail on the User Interfaces section of this document. What a user will experience from these options and features from Want2Remember is notification, planning, memory, and efficacy. This will help a user live a productive, on schedule, and minimize stress from their everyday life without forgetting deadlines, important events, or life situations. It is built for the users to navigate with ease.

9.2 Screen Frameworks or Images



[Back](#)

Create Memory

Generic Memory

+

Interaction

+

Simple Memory

+

ToDo

+

Appointment

+

Simple ToDo

+

Credit Card

+

Website Password

+

Bank Account

+

Simple Password

+

Purchase

+

Generic Memory

Title

Enter Title

Select a category

[See All](#)

Fact

Event

People


Secure

Tags

[Add Tags](#)

Add Tag +

Memory Date

mm/dd/yyyy 

Memory Time

6:58 PM

[Time](#) 

Starting Time

6:58 PM

[Time](#) 

Ending Time

6:58 PM

[Time](#) 

Status

Pending

In Progress

Delayed

Stopped

Done

Add To Calendar

Add Memory to Phone Calendar



Location

Select Location



One Line Sample

Enter Text Here

Provider

Provider

Card Number

Card Number

Questions To Ask

Questions To Ask

Pin

Pin

CVC

CVC

Things to Bring

Things to Bring

ReminderDate

None

[Calendar](#)



Reminder Time

None

[Time](#)



Reminder Reoccurrence

None

[Reoccurrence](#)



Snooze Timer

None

[Snooze Timer](#)



Notification Time

None

[Set Notification Time](#)

Custom Field

REMOVE

Custom Field Title

Write Custom Field Title

Content

Write Content

Description

REMOVE

Description Title

Write Description Title

Description Content

Write Description

Title

Enter Title

Select a category

[See All](#)

Fact

Event

People

Secure

Tags

[Add Tags](#)

Add a Tag

[X close](#)

Enter text here then tap Add

[Add](#)

Memory Date

12/03/2022



December 2022



Su	Mo	Tu	We	Th	Fr	Sa
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

[Clear](#)

[Today](#)

Memory Date

12/03/2022

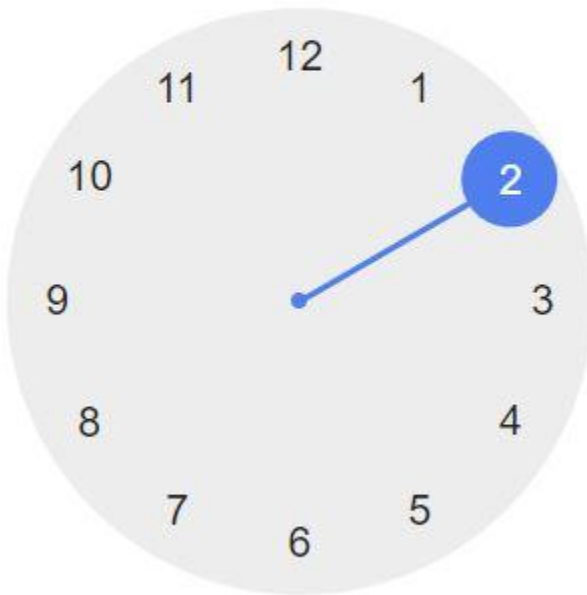


Memory Time

2:55 PM

Time ⌚

2:52 AM
PM



CANCEL

OK

Set time

Type in time

2 : 52
hour minute

PM



CANCEL

OK

Starting Time

2:55 PM

Time



Ending Time

2:55 PM

Time



Status

Pending

In Progress

Delayed

Stopped

Done

ReminderDate

None

Calendar



DateX

«<December 2022>»

MON	TUE	WED	THU	FRI	SAT	SUN
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

Clear

Apply

Reminder Time

NoneTime🕒

Reminder Reoccurrence

NoneReoccurrence🕒

Set Reoccurrence:

X

None

Daily

Weekly

Monthly

Snooze Timer

None

Snooze Timer ⌚

Notification Time

None

Set Notification Time

X

None

On Time

5 Minutes Before

10 Minutes Before

15 Minutes Before

30 Minutes Before

1 Hour Before

2 Hour Before

Location

Select Location



Close 



Search for Location

Search for location using Google



Manual Address

Enter your very own manual address



Current Location

Use your current location address

Cancel 

Save 

Sa

Santa Monica, CA, USA

San Gabriel, CA, USA

San Diego, CA, USA

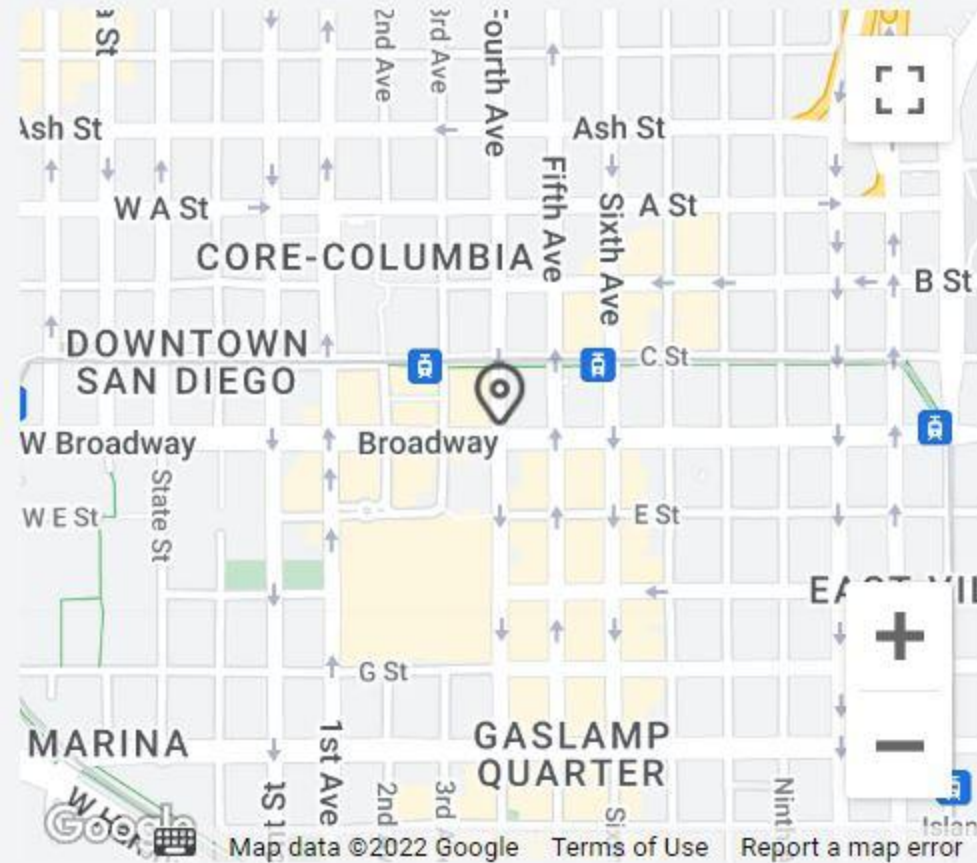
Santa Ana, CA, USA

San Marino, CA, USA

Cancel 

Save 

San Diego, CA, USA



One Line Sample

Enter Text Here

Provider

Provider

Card Number

Card Number

Questions To Ask

Questions To Ask

Pin

Pin

CVC

CVC

Things to Bring

Things to Bring

Custom Field Title

Write Custom Field Title

Content

Write Content

Description Title

Write Description Title

Description Content

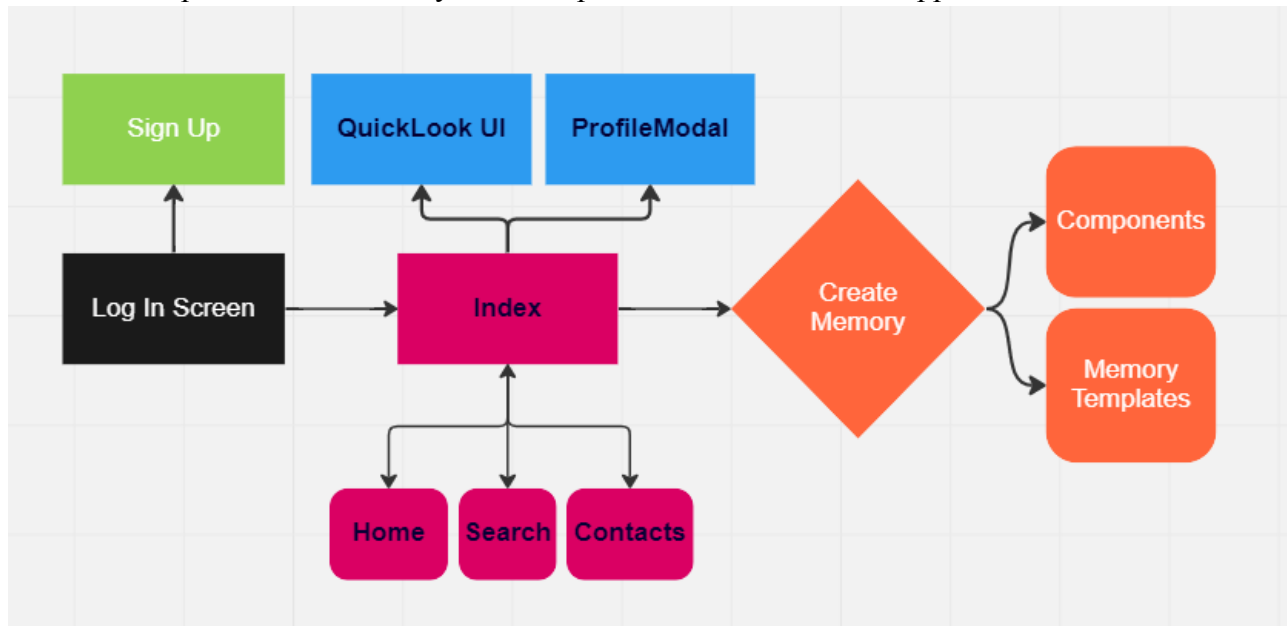
Write Description

9.3 User Interface Flow Model

Currently, the user is able to navigate through the:

- Login
- Sign Up
- Main Index Page
- QuickLook UI (Soon to be user interactive)
- Profile Modal
- SideBar Menu
- Create Memory
- Memory Templates
- Smaller components within a memory creation (Still continuing to work on newer components as well)

All these components are currently in development for the Cloud side application.



10. Requirements Validation and Verification

10.1 Home Screen

10.1.1	The system shall display created memories on the home screen	
10.1.2	The system shall display memories within a category selected by the user (Filter by category)	
10.1.3	The system shall display memories within a type selected by the user (Filter by memory type)	
10.1.4	The system shall display memories within a time frame selected by the user (Filter by time/date)	
10.1.5	The system shall allow the user to create a new memory	
10.1.6	The system shall allow the user to select a memory to view	

10.2 Create Screen

10.2.1	The system shall allow the user to select from premade memory templates	
10.2.2	The system shall allow the user to give memories a title	
10.2.3	The system shall allow the user to select a category for a memory	
10.2.4	The system shall allow the user to create a PIN for secured memories if not already created	
10.2.5	The system shall allow the user to select a date for a memory	
10.2.6	The system shall allow the user to select a time for a memory	
10.2.7	The system shall allow the user to select a reminder time for a memory	
10.2.8	The system shall allow the user to select a status for a memory	
10.2.9	The system shall allow the user to enter tags for a memory	
10.2.10	The system shall allow the user to enter a location for a memory	
10.2.11	The system shall allow the user to select people for a memory	
10.2.12	The system shall allow the user to add a custom field to a memory	
10.2.13	The system shall allow the user to enter a title to a custom field	
10.2.14	The system shall allow the user to enter content to a custom field	

10.3 Edit Screen

10.3.1	The system shall allow the user to edit a memory	
10.3.2	The system shall allow the user to delete a memory	

10.4 More Details Screen

10.4.1	The system shall allow the user to view the details of a screen	
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10.5 Contacts Screen

10.5.1	The system shall display contact quick looks	
10.5.2	The system shall display associated memories	
10.5.3	The system shall allow the user to call a contact	
10.5.4	The system shall allow the user to text a contact	
10.5.5	The system shall allow the user to email a contact	
10.5.6	The system shall allow the user to search for a contact	
10.5.7	The system shall allow the user to update contacts	

10.6 Search Screen

10.6.1	The system shall allow the user to search through the database with the search bar.	
10.6.2	The system shall display scrollable results below the search bar.	

10.7 Settings Screen

10.7.1	The system shall allow the user the ability to import/export JSON format memories.	
10.7.2	The system shall allow the user to create and reset their secured PIN.	
10.7.3	The system shall allow the user to send feedback.	

10.8 Backend (TBD)

10.8.1	The system shall allow synchronization between caregiver and care receiver data.	
10.8.2	The system shall encrypt user data.	

11. Glossary

API: Application Programming Interface

CRUD: Create, Read, Update, and Delete

GUI: Graphical User Interface

HIPAA: Health Insurance Portability and Accountability Act

iOS: Apple's mobile operating system

JSON: JavaScript Object Notation

JS: JavaScript

MacOS: Apple's Macintosh operating system

OS: Operating System

PIN: Personal Identification Number

RSA Encryption: public key/private key encryption method

12. References

Title: Software Requirements Specification Template

Author: Professor Jiang Guo

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Authors: Academind by Maximilian Schwarzmüller, Maximilian Schwarzmüller

Date: (First Accessed) August 31, 2022

<https://www.udemy.com/course/react-the-complete-guide-incl-redux/>

Title: Software Design Document for Want2Remeber (Ver 2)

Authors: Kevin Benavente, Thomas Weatherell, Alejandro Salazar, Jesus Roman, Leon/Liangbin Huang, Jesus B. Osuna, Edward Ramirez, Tanya Kitchaiskulrit

Date: Dec 02, 2022

Title: Software Requirements Specification for Want2Remeber (Ver 2)

Authors: Antonio Campos, Alec Kaczmarek, Amy Guttman, Alexandra Strong, Vincent Li, Saiyang Liu, Ricardo Marroquin, Miguel Nonoal-Garcia, Jonathan Sum, Edwin Zapata Minero

Date: December 09, 2022