

### 3.0 System Requirements

#### 3.1 Sprint 1

##### **Sprint 01**

##### **Sprint Goal**

- To develop data visualization software components for users to view and render the design virtually and for management to build the property's image

##### **Sprint Backlog**

- As a management staff, I can open own virtual workspace. [2]
- As a management staff, I can open shared virtual workspace. [3]
- As a management staff, I can view public virtual workspace among management. [3]
- As a management staff, I can create data source required for virtual layer of data. [5]
- As a management staff, I can create a virtual data layer. [2]
- As a management staff, I can deploy virtual data layer. [5]
- As a management staff, I can save the virtual data layer. [3]
- As a management staff, I can view tenant information. [3]
- As a management staff, I can access data from virtual data layer. [3]
- As a management staff, I can select data for computer-generated 3D environments. [2]
- As a management staff, I can create computer-generated 3D environments. [3]
- As a management staff, I can capture images and create 3D models of the property. [3]
- As a management staff, I can add furniture, decor to empty rooms. [4]
- As a management staff, I can create virtual walks inside the property. [4]
- As a management staff, I can make changes to decoration. [2]
- As a management staff, I can edit the 3D captured model. [2]
- As a management staff, I can perform save as action on the virtualization setting to own workspace. [2]
- As a management staff, I can export the design. [1]
- As a management staff, I can save the setting to its workspace. [1]
- As a management staff, I can share the virtualization setting to selected management. [1]
- As a management staff, I can share the virtualization setting to public. [1]
- As a customer, I can view a list of property available for visualization. [3]
- As a customer, I can use filter tool to filter the list. [3]
- As a customer, I can select the property for visualization. [1]
- As a customer, I can visualise the interior of the property. [4]
- As a customer, I can search for fully built property on Map. [3]

- As a customer, I can check property safety ratings. [3]
- As a customer, I can bookmark the property so that I can find the property again after exit virtualization. [2]
- As a customer, I can open my own virtual workspace. [2]
- As a customer, I can open shared virtual workspace. [2]
- As a customer, I can view public virtual workspace among customers. [3]
- As a customer, I can edit maps. [1]
- As a customer, I can 3D render the incomplete property blueprint. [3]
- As a customer, I can design interior blueprints of the property. [3]
- As a customer, I can edit 3D Views. [3]
- As a customer, I can perform save as action on the setting to own workspace. [2]
- As a customer, I can save the setting to its workspace. [1]
- As a customer, I can share the setting to selected customer. [2]
- As a customer, I can share the setting to public. [1]

**Estimated Velocity:** 97

#### **Schedule**

- Sprint period: from 20/3/2023 to 5/4/2023 ( 2.3 weeks)
- Daily scrum: 9.00 AM, N003
- Sprint demo: 10.00 AM, N003, 6/4/2023

#### **Team**

- Liu Yik Pui, Adele Lim Hui Hui, Kong Wai Kin, Tan See Moon (Scrum Master)

### 3.2 Sprint 2

#### Sprint 02

##### Sprint Goal

- To develop a financial management software component for business components to manage their finances more effectively and help customers to create budgets, calculate loans and manage investments.

##### Sprint Backlog

- As a customer, I can calculate tax, loan, affordability and currency for the property. [3]
- As a customer, I can check property values. [3]
- As a customer, I can check property tax. [3]
- As a customer, I can check income affordability. [3]
- As a customer, I can check foreign currency. [2]
- As a customer, I can check income affordability. [2]
- As a customer, I can check the rental income after purchase if affordable. [2]
- As a customer, I can check loan amounts if unaffordable. [2]
- As a customer, I can refinance existing property. [3]
- As a customer, I can check on property depreciation. [3]
- As a customer, I can calculate the total cost needed to buy the property. [2]
- As a customer, I can recalculate depreciation. [2]
- As a customer, I can edit the Rental Property calculator. [2]
- As a customer, I can edit the affordability calculator. [2]
- As a customer, I can edit Home Loan Calculator. [2]
- As a customer, I can edit on Property Tax. [2]
- As a customer, I can edit Property Value. [3]
- As a customer, I can pay to purchase or rent property. [3]
- As a customer, I can view the payment details including cost for different categories before paying. [3]
- As a customer, I can link to my bank account to make payment [3]
- As a customer, I can link to my e-wallet account to make payment [3]
- As a customer, I can enter the payment details including amount and reference. [3]
- As a customer, I can reply to payment confirmation. [2]
- As a customer, I can enter OTP code to ensure that the payment is not done by others. [3]
- As a customer, I can pay to the seller successfully after passing the AI fraud prevention. [5]
- As a customer, I can pay to the seller securely by having my payment encrypted. [5]

- As a customer, I can have my payment record send to the official as report if the payment detected as fraud. [5]
- As a customer, I can send my payment to the company wallet if the payment is not a fraud. [3]
- As a customer, I can upload the proof of receiving property from the seller for verification. [5]
- As a customer, I can send my payment from company wallet to owner wallet after the verification is verified. [5]
- As a customer, I can request refund if I do not receive the property from the seller. [3]
- As a customer, I can get refund after the request for refund is approved. [3]
- As a customer, I can get receipt of payment after paying. [5]
- As a customer, I can have my payment recorded so that I can view payment history in the future. [4]

**Estimated Velocity:** 104

#### **Schedule**

- Sprint period: from 7/4/2023 to 25/4/2023 ( 2.8 weeks)
- Daily scrum: 9.00 AM, N003
- Sprint demo: 10.00 AM, N003, 26/4/2023

#### **Team**

- Liu Yik Pui, Adele Lim Hui Hui, Kong Wai Kin, Tan See Moon (Scrum Master)

### 3.3 Sprint 3

#### Sprint 03

##### Sprint Goal

- To develop a client relationship management component for businesses to manage the interactions with customers and prospects.

##### Sprint Backlog

- As a customer, I can choose to search property for renting or buying purpose [0.5]
- As a customer , I can search for property by country [1]
- As a customer, I can search for property by state [1]
- As a customer, I can search for property by picking location on the map function [1.5]
- As a customer, I can search for more specific property using advanced filter [1.5]
- As a customer , I can choose the house size for property that I want to search [1]
- As a customer , I can choose to set search priority to the new project [1]
- As a customer, I can search for property using keyword [1]
- As a customer , I can search for property within a range of built year [1]
- As a customer , I can search the property by property type [1]
- As a customer , I can view the listing of property posts. [1]
- As a customer , I can sort the property post by date [1]
- As a customer, I can sort the property post by price [1]
- As a customer , I can sort the property post by PSF [1]
- As a customer , I can sort the property post by property size [1]
- As a customer , I can view the duration and date posted of post [1]
- As a customer , I can click on the post for further information [1]
- As a customer , I can view the image of property [1]
- As a customer, I can view the price of the property [1]
- As a customer, I can view the location of the property [1]
- As a customer, I can view the profile of property agent [1.5]
- As a customer, I can message with the property agent [1]
- As a customer , I can call the property agent [1]
- As a customer, I can get recommendation list of similar properties [1]
- As a customer , I can save the favourite post into saved list [0.5]
- As a customer, I can redirect back to favourite post from saved list [1]
- As a customer. I can get notify on latest update of favourite post [0.5]
- As a customer, I can search forum post by category [1]
- As a customer, I can search forum post by country [1]

- As a customer, I can search forum post by state [1]
- As a customer, I can sort the forum post by date [1]
- As a customer, I can sort the forum post by category [1]
- As a customer, I can view the profile of the poster [1]
- As a customer, I can view the popular listing of forum posts. [0.5]
- As a customer, I can view the topic of the post [0.5]
- As a customer, I can view the content of forum posts by clicking it [0.5]
- As a customer, I can create a forum post [1]
- As a customer, I can like or unlike the post by clicking buttons [0.5]
- As a customer, I can click to view the comment session under the post [1]
- As a customer, I can view the comment from every customers [1]
- As a customer, I can create comment under the post [1]
- As a customer, I can create reply to the comment [1]
- As a customer, I can click on the post for further information [1]
- As a customer, I can message to other customer exist in the forum personally [1]
- As a customer, I can choose the preference language for live chat [0.5]
- As a customer, I can view the list of staff capable of communicate in specific language [1]
- As a customer, I can view the profile of the staff [1]
- As a customer, I can check the overall performance and rating of staff [1.5]
- As a customer, I can choose a staff for communication [0.5]
- As a customer, I can choose to message to staff on live chat [1]
- As a customer, I can choose to make phone call to staff on live chat [1]
- As a customer, I can provide feedback and rating on the staff after live chat session [0.5]
- As a customer, I can ask management staff questions in chat. [2]
- As a customer, I can ask for AI help in chat when disputes occur with management staff. [1.5]
- As a customer, I can meet management staff online to solve disputes. [1]
- As a customer, I can get a property inspection checklist in chat. [0.5]
- As a customer, I can get a documents checklist in chat. [0.5]
- As a customer, I can check the requirements with the checklists in chat. [1]
- As a customer, I can translate words to other languages in chat. [1]
- As a customer, I can see the translated words in chat. [0.5]
- As a customer, I can browse the chat history for matched words in chat. [1]
- As a customer, I can get the search result if match words are key in the chat search bar. [0.5]
- As a customer, I can browse the attorney directory after payment. [2]
- As a customer, I can select an interested attorney profile. [1]

- As a customer, I will direct back to the attorney directory to browse again. [0.5]
- As a customer, I can view review of attorney's Law Firm. [2]
- As a customer, I can request for attorney appointment. [2]
- As a customer, I can be assigned with an attorney. [1]
- As a customer, I can receive scheduled meet-up time through chat. [2]
- As a customer, I can request new appointment time from the meet-up scheduler if missed. [1]
- As a customer, I can choose the delivery mode of keys to meet-up. [0.5]
- As a customer, I can go to review section to review Law Firm. [1]
- As a customer, I can submit a review to the Law Firm's review section that goes through explicit content filter. [2]
- As a customer, I can go to the review section to review management. [1]
- As a customer, I can review management's services that goes through explicit content filter. [2]
- As a customer, I can sort the management's review for a better perspective. [2]
- As a customer, I can rate the services of the management. [1]
- As a management staff, I can ask for AI help when disputes occur with customers. [1.5]
- As a management staff, I can meet customers online to solve disputes. [1]
- As a management staff, I can input free time when request by meet-up scheduler. [2]
- As a management staff, I can scan the signed documents with built in scanner. [2]
- As a management staff, I can send scanned documents to customers through chat. [1]
- As a management staff, I can be notified when customers opt for meet up delivery of keys. [1]
- As a management staff, I can notify the customer the meeting time for key delivery. [1]
- As a management staff, I can go to the review section to review customers. [1]
- As a management staff, I can review the customers that goes through explicit content filter. [2]
- As a management staff, I can view our management's review section. [1]
- As a management staff, I can reply to the review of customers. [2]
- As a management staff, I can receive system generated statistics based on review analysis. [3]

**Estimated Velocity:** 96

#### **Schedule**

- Sprint period: from 27/4/2023 to 11/5/2023 (2.3 weeks)
- Daily scrum: 9.00 AM, N003

- Sprint demo: 10.00 AM, N003, 12/5/2023

**Team**

- Liu Yik Pui, Adele Lim Hui Hui, Kong Wai Kin, Tan See Moon (Scrum Master)