# CSIT321 - Final Year Project

# Multi-factor transaction authorisation

# based on QR code

# Project Progress Report

| Group: FYP-23-S1-02 | | |
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# 1. Week 0 (7th January 2023 - 11th January 2023)

The team met up for the first time and discussed their understanding of the Project and its requirements and deliverables. We then discussed each of our strengths and benefits in terms of website coding, application coding and documentation. The team split up the work and started researching on the topic.

The team will start doing research on the Project topic "Multi-factor transaction authorisation based on QR code" in preparation for the Project.

## 2. Week 1 (12th January 2023 - 18th January 2023)

### 2.1. Overview

A wide and intensive research was done by the team by breaking down the Project topic into different keywords such as Authorisation, QR code and Multi-factor transactions. Other research such as the design aspects and marketing research on other similar products were also done.

### 2.2. Work completed

The team researched on the definition of authorisation and the QR code usages. Research was also done on similar multi-factor transactions that were done on other platforms. Interface design research on the various types of authorisation methods were completed.

### 2.3. List of Completed Work Items/Activities

| S/No | Work Item | Work Duration | Comments |
|------|-----------|---------------|----------|
| 1. | Research on Authorisation | 13th Jan - 15th Jan | |
| 2. | Research on QR codes | 13th Jan - 15th Jan | |
| 3. | Similar Multi-factor transactions done on other platforms | 17th Jan - 19th Jan | |
| 4. | Design Research | 17th Jan - 19th Jan | |
| 5. | Research on various types of authorisation methods and what be used for the project | 13th Jan - 20th Jan | |

### 2.4. Current Work

The team is coming together to brainstorm for the user stories ideas. The team is currently researching functional requirements that are necessary for the project.

### 2.5. List of Current Work Items/Activities

| S/No | Work Item | % Completed | Expected Completion Dat |
|------|-----------|-------------|-------------------------|
| 1. | Create User Stories | 20 | 24th Jan |
| 2. | Research on functional requirements | 15 | 27th Jan |

## 2.6. Future Work

The team needs to finalise the user stories and ask our supervisor for his views and comments for it. Then, get started with the use case diagrams. The team also need to add in the functional and non-functional requirements for the project and get started with the market research.

## 2.7. Problems Encountered

The team had to define the meaning of authorisation and what needs to be done for the project. Coming up with a common shared platform for us to write our project requirements document.

## 2.8. Overall Assessment

The progress made was good, and we are confident that the team will continue to work well together to achieve their project goals in the coming weeks.

# 3. Week 2 (19<sup>th</sup> January 2023 - 25<sup>th</sup> January 2023)

## 3.1. Overview

The team came up with the actors in the project and the use cases that can be done by the actors. Research on functional and non-functional requirements were also completed.

## 3.2. Work completed

The main user stories contain the required features which were completed along with the report containing the documentation of the functional requirements. The team has sent the finalised user stories to the supervisor to get the final approval.

## 3.3. List of Completed Work Items/Activities

| S/No | Work Item | Work Duration | Comments |
|------|-----------|---------------|----------|
| 1. | Create and finalise User Stories | 20th Jan - 23th Jan | To finalise with supervisor |
| 2. | List of Functional Requirements | 24th Jan - 25th Jan | To finalise with supervisor |

## 3.4. Current Work

The team needs to create and design the use case diagrams and user flow diagrams. Research and come up with the regulations for the project. Currently, the team is trying to create Git access for everyone before the team starts on the creation of the website and mobile application.

## 3.5. List of Current Work Items/Activities

| S/No | Work Item | % Completed | Expected Completion Date |
|------|-----------|-------------|--------------------------|
| 1. | Use Case Diagrams | 30 | 30th Jan |
| 2. | User Flow Diagrams | 30 | 30th Jan |
| 3. | List of Regulations | 10 | 28th Feb |
| 4. | Research on non-functional requirements | 0 | 1st Feb |
| 5. | Git creation and sharing access | 0 | 26th Jan |

## 3.6. Future Work

The team will need to complete all the use cases and user flow diagrams. Use Git as the platform to share the project progress and project-related documents. Come up with regulations that will be in place during the project. Continue with the research and complete the non-functional requirements.

## 3.7. Problems Encountered

There were no problems encountered by the team for Week 2 of the Project.

## 3.8. Overall Assessment

The progress made by the team was good. The team will continue with the research for the Project in the upcoming week and look to finalise the Project Idea and start working on the Report Requirement Documentation.

# 4. Week 3 (26<sup>th</sup> January 2023 - 1<sup>st</sup> February 2023)

## 4.1. Overview

The team is done with most of the user stories and use case related diagrams. The team has also completed the research on noting down regulations for the project, as well as the research for the non-functional requirements.

## 4.2. Work completed

The team has completed most of the work that the team had started last week such as the use case diagrams, flow diagrams, regulations and the research on non-functional requirements.

## 4.3. List of Completed Work Items/Activities

| S/No | Work Item | Work Duration | Comments |
|------|-----------|---------------|----------|
| 1. | Use case diagrams | 25th Jan - 28th Jan | |
| 2. | User flow diagrams | 25th Jan - 28th Jan | |
| 3. | Regulations | 25th Jan - 29th Jan | Took longer than expected to completed |
| 4. | Research on non-functional requirements | 28th Jan - 31st Jan | |

## 4.4. Current Work

Currently, the team is coming up with another alternative platform for the common project folder access. The team also researched and gathered all the information needed for our project and stored it into a document.

## 4.5. List of Current Work Items/Activities

| S/No | Work Item | % Completed | Expected Completion Date |
|------|-----------|-------------|--------------------------|
| 1. | Creation of GitLab and sharing access | 0 | 8th Feb |
| 2. | Project Requirements Report Draft | 10 | 8th Feb |

## 4.6. Future Work

Complete the project requirements report with the user stories, use case diagrams and user flow diagrams that were already previously created, all other required sections and combine all the research done.

## 4.7. Problems Encountered

The team had not managed to create the Git and provide everyone with access. The team also did not have time to host an online meeting this week. However, in the future, the team intends to have a meeting on a fixed date and time each week to discuss the progress.

## 4.8. Overall Assessment

Other than the missed Git creation, everything is going according to the planned schedule. The team is steadily working towards the completion of the Project Requirements Report.

# 5. Week 4 (2nd February 2023 - 8th February 2023)

## 5.1. Overview

The team is done with the Git creation and the sharing access. The team also completed the draft of the Project Requirements Report.

## 5.2. Work completed

The team has finished consolidating the work done from the previous weeks into the first official draft of the Project Requirements Report.

## 5.3. List of Completed Work Items/Activities

| S/No | Work Item | Work Duration | Comments |
|---|---|---|---|
| 1. | Project Requirements Report Draft | 2nd Feb - 8th Feb | To finalise with supervisor |
| 2. | Creation of GitLab and sharing of access | 7th Feb - 8th Feb | Back log from last week |

## 5.4. Current Work

Create a database and come up with a login page for both the Website and the Mobile Application

## 5.5. List of Current Work Items/Activities:

| S/No | Work Item | % Completed | Expected Completion Date |
|---|---|---|---|
| 1. | Finalise project requirements report | 90% | 10 Feb |
| 2. | Create database | 15% | 12 Feb |
| 3. | Create login page for Customer | 5% | 15 Feb |

## 5.6. Future Work

The team will come up with a skeleton of a common login page for the hotel operator and customer, along with another skeleton login page for the system administrator before linking it to the database. After creating the database, the team needs to link it to the login page for all the actors and do a test run.

## 5.7. Problems Encountered

The team was unable to come to a decision on which database to use. The team ended up exploring different databases and using the one that was most comfortable.

## 5.8. Overall Assessment

The progress made by the team was good. The team will continue with the research for the Project in the upcoming week and look to finalise the Project Idea and start working on the Report Requirement Documentation

# 6. Week 5 (9<sup>th</sup> February 2023 - 15<sup>th</sup> February 2023)

## 6.1. Overview

The team is currently polishing up on the project requirements report.

## 6.2. Work completed

The team finalised the project requirement report. The team has also completed the database creation and has done up the login page for the website.

## 6.3. List of Completed Work Items/Activities:

| S/No | Work Item | Work Duration | Comments |
|---|---|---|---|
| 1. | Finalise on Project Requirements Report | 5th Feb - 10th Feb | To finalise with supervisor |
| 2. | Create database | 8th Feb - 12th Feb | |
| 3. | Create login page for Customer | 10th Feb - 14th Feb | |

## 6.4. Current Work

The team has started to create wireframes for the website and mobile application.

## 6.5. List of Current Work Items/Activities:

| S/No | Work Item | % Completed | Expected Completion Date |
|---|---|---|---|
| 1. | Create wireframes for website | 30 | 22nd Feb |
| 2. | Create wireframes for mobile application | 30 | 22nd Feb |

## 6.6. Future Work

The team will continue to create the wireframes for the website and mobile application.

## 6.7. Problems Encountered

There were no problems encountered by the team for Week 5 of the Project.

## 6.8. Overall Assessment

The team is focusing on the main interfaces for users on the website and the mobile application.

# 7. Week 6 (16th February 2023 - 22nd February 2023)

## 7.1. Overview

By this week, the team should have the skeleton of both the website and the mobile application. The team should have a database that is linked up to the website.

## 7.2. Work completed

The team created the wireframes for the website and the mobile application. The team also created the mobile application environment to get started on our project.

## 7.3. List of Completed Work Items/Activities

| S/No | Work Item | Work Duration | Comments |
|------|-----------|---------------|----------|
| 1. | Create wireframes for website | 14th Feb - 22th Feb | |
| 2. | Create wireframes for mobile application | 15th Feb - 22th Feb | |

## 7.4. Current Work

Currently, the team is working on the creation of a homepage and sign in page for customers for the website. The team has also started looking into the creation of a joint database for both mobile and website applications.

## 7.5. List of Current Work Items/Activities

| S/No | Work Item | % Completed | Expected Completion Date |
|------|-----------|-------------|--------------------------|
| 1. | Website Homepage | 0 | 28th Feb |
| 2. | Research on linking of website database with mobile application | 10 | 1st Mar |
| 3. | Signup page for new users in website | 5 | 1st Mar |

## 7.6. Future Work

Finish up the homepage for the website and the research on linking up the website database with a mobile application.

## 7.7. Problems Encountered

The team has no prior experience of hosting a database online and linking it to a website and mobile application, therefore, the team will require more time to do more research.

## 7.8. Overall Assessment

The progress made for the week is slightly lesser than usual. However, the team is still on track with the compilation of the Project and will continue to make good progress in the coming weeks.

# 8. Week 7 (23<sup>rd</sup> February 2023 - 1<sup>st</sup> March 2023)

## 8.1. Overview

The team split up into two teams, the website team and mobile application team. The team has finished up on creating a homepage and the signup page for new customers on the website. The research for linking the website to the database with a mobile application has been completed.

## 8.2. Work Completed

The website team has completed the homepage and signup page. The website team also did some research on linking the website database with the mobile application.

## 8.3. List of Completed Work Items/Activities

| S/No | Work Item | Work Duration | Comments |
|------|-----------|---------------|----------|
| 1. | Homepage for the website | 23th Feb - 28th Feb | |
| 2. | Research on linking of website database with mobile application | 22nd Feb - 1st Mar | |
| 3. | Signup page for new users on the website | 23th Feb - 1st Mar | |

## 8.4. Current Work

The website team has started to create a rooms page, a reservation form page, an about page and a contact us page for the customer's website interface. The mobile team is working on creating the login page for the mobile application.

## 8.5. List of Current Work Items/Activities

| S/No | Work Item | % Completed | Expected Completion Date |
|------|-----------|-------------|--------------------------|
| 1. | Rooms Page for Website | 5 | 5th Mar |
| 2. | Reservation Form Page for Website | 0 | 8th Mar |
| 3. | About Page for Website | 20 | 6th Mar |
| 4. | Contact Us Page for Website | 20 | 7th Mar |
| 5. | Login Page for Mobile Application | 0 | 8th Mar |

## 8.6. Future Work

The team needs to create a page to display all the different rooms that are available in the hotel through the website. A separate page for the customer to reserve the room that the customers want. The team also needs to show the customer hotel room details and ways to contact the hotel. The login page for the mobile application will also be started on.

## 8.7. Problems Encountered

The form validation was difficult to implement, but the team did some troubleshooting and managed to figure out the most efficient way to complete the form.

## 8.8. Overall Assessment

The team has made good progress with the website and we are on track to have a demo prototype ready by the mid-point progress presentation.

# 9. Week 8 (2ⁿᵈ March 2023 - 8ᵗʰ March 2023)

## 9.1. Overview

The website team focuses on doing up the website interfaces for the System Administrator, Hotel Operator and Customer. The mobile application team will focus on the creation of the mobile application with the QR code scanner for the Customer to scan the QR code to enter the hotel room.

## 9.2. Work Completed

The website team completed the Rooms Page where the customer can view the different hotels and choose the hotel which is deemed suitable for the customer's stay. The website team also completed the Reservation Form Page for the booking

## 9.3. List of Completed Work Items/Activities

| S/No | Work Item | Work Duration | Comments |
|------|-----------|---------------|----------|
| 1. | Rooms Page for Website | 1st Mar - 5th Mar | |
| 2. | Reservation Form Page for Website | 2nd - Mar - 8th Mar | Took longer than expected |
| 3. | About Page for Website | 1st Mar - 6th Mar | |
| 4. | Contact Us Page for Website | 1st Mar - 7th Mar | |
| 5. | Login Page for Mobile Application | 2nd Mar - 8th Mar | |

## 9.4. Current Work

The team created the database along with the tables to store the information. The website team is currently working on the login pages for the System Administrator and Hotel Operator for the website. The website team is also working on the System Administrator and Hotel Operator dashboard page. The mobile application team is working on the homepage for the mobile application.

## 9.5. List of Current Work Items/Activities

| S/No | Work Item | % Completed | Expected Completion Date |
|------|-----------|-------------|--------------------------|
| 1. | Add the tables into the database | 20 | 9th March |
| 2. | Login Page for the System Administrator | 30 | 11th March |
| 3. | System Administrator Dashboard Page | 20 | 12th March |
| 4. | Login Page for the Hotel Operator | 30 | 11th March |
| 5. | Hotel Operator Dashboard Page | 20 | 12th March |
| 6. | Homepage for the Mobile Application | 10 | 15th March |

## 9.6. Future Work

The team needs to create a page to display all the different rooms that are available in the hotel through the website. A separate page for the customer to reserve the room that the customers want. The team also needs to list down the customer's details about the hotel and ways to contact the hotel customer service staff.

## 9.7. Problems Encountered

There are no problems encountered.

## 9.8. Overall Assessment

The team have created the login and customer website pages to submit for the midpoint prototype submission.

# 10.  Week 9 (9th March 2023 - 15th March 2023)

## 10.1.  Overview

The website team created the database tables and also the Login page and Dashboard page for both Administrator and Hotel Operator. The mobile application team worked on researching and creating the application on React Native, which is the software framework which the team has decided to use.

## 10.2.  Work Completed

For the website interface, the website team worked on creating the Home Page where the customer can view the different hotels and choose the hotel which is deemed suitable for his/her stay. The Login Page to log into his/her account to view his/her personal particulars along with Booking History for past references and the Sign Up page to register for an account in order to book a hotel room.

## 10.3.  List of Completed Work Items/Activities

| S/No | Work Item | Work Duration | Comments |
|------|-----------|---------------|----------|
| 1. | Create tables inside the database. | 13th March | Had to make sure that the tables that were being created are the same for every member |
| 2. | Login Page for the System Administrator | 14th March | |
| 3. | Administrator Dashboard Page. | 13th March | |
| 4. | Login Page for the Hotel Operator. | 14th March | |
| 5. | Hotel Operator Dashboard Page. | 13th March | |
| 6. | Login Page for the Mobile Application. | 14th March | |

## 10.4.  Current Work

The team created the database along with the tables to store the information. The team is currently working on the System Administrator login page and Customer login page.

## 10.5. List of Current Work Items/Activities

| S/No | Work Item | % Completed | Expected Completion Date |
|---|---|---|---|
| 1. | Create Website Interfaces for the Customer. | 30 | 17th March |
| 2. | Create Website Interfaces for the Hotel Operator. | 30 | 18th March |
| 3. | Create Website Interfaces for the System Administrator. | 30 | 19th March |
| 4. | Create Functions for the System Administrator Website. | 20 | 20th March |
| 5. | Create Functions for the Hotel Operator Website. | 20 | 21st March |
| 6. | Create Functions for the Customer Website. | 20 | 22nd March |
| 7. | Create QR Scanner for the Mobile Application. | 10 | 23rd March |

## 10.6. Future Work

The team needs to create a page to display all the different rooms that are available in the hotel through the website. A separate page for the customer to reserve the room that the customers want. The team also needs to show the customer more information about the hotel and how to contact the hotel.

## 10.7. Problems Encountered

The problems encountered is that the team had to troubleshoot and figure out ways on how to fix the QR scanner for it to work and link it to the login page of the mobile application. As for the functions of the System Administrator and Customer Website, the back button was not working properly and some information from the edit account in System Administrator was not displaying properly.

## 10.8. Overall Assessment

I think the team have gotten the basic functions that are needed for the website to submit for the midpoint prototype submission.

# 11. Week 10 (16th March 2023 - 23th March 2023)

## 11.1. Overview

The team focused on doing up the website interfaces for the System Administrator, Hotel Operator and Customer alongside the mobile application with the QR code scanner for the Customer to scan the QR code to enter the hotel room.

## 11.2. Work Completed

The team created the website interfaces and the functions for the Hotel Operator.

## 11.3. List of Completed Work Items/Activities

| S/No | Work Item | When Completed | Comment |
|------|-----------|----------------|---------|
| 1. | Create Website Interfaces for the Customer. | 17th March | |
| 2. | Create Website Interfaces for the Hotel Operator. | 18th March | |
| 3. | Create Website Interfaces for the System Administrator. | 19th March | |
| 4. | Create Functions for the System Administrator Website. | 20th March | |
| 5. | Create Functions for the Hotel Operator Website. | 21st March | |
| 6. | Create Functions for the Customer Website. | 22nd March | |
| 7. | Create QR Scanner for the Mobile Application. | 23rd March | |

## 11.4. Current Work

The team created the database along with the tables to store the information. The team is currently working on the login pages for the System Administrator and the Customer.

## 11.5. List of Current Work Items/Activities:

| S/No | Work Item | % Completed | Expected Completion Date |
|------|-----------|-------------|--------------------------|
| 1. | Figma | 20 | 25th March |
| 2. | User Manual | 40 | 25th March |
| 3. | Progress Report | 40 | 25th March |

## 11.6. Future Work

The team needs to create a page to display all the different rooms that are available in the hotel through the website. A separate page for the customer to reserve the room that the customers want. The team also needs to show the customer more information about the hotel and how to contact the hotel.

## 11.7. Problems Encountered

There are no problems encountered.

## 11.8. Overall Assessment

I think the team have gotten the basics that are needed for the website that is necessary for the mid-point prototype submission.

# 12. Week 11 (24th March 2023 - 30th March 2023)

## 12.1. Overview

The team focused on doing up the website interfaces for the System Administrator, Hotel Operator and Customer alongside the mobile application with the QR code scanner for the Customer to scan the QR code to enter the hotel room.

## 12.2. Work Completed

The team created the website interfaces and the functions for the Hotel Operator.

## 12.3. List of Completed Work Items/Activities

| S/No | Work Item | When Completed | Comment |
|------|-----------|----------------|---------|
| 1. | Create Website Interfaces and function for to suspend user account – System Admin | 25th March | |
| 2. | Create Website Interfaces and function to re-activate the user account - System Admin | 26th March | |
| 3. | Create Website Interfaces and function to view all user profiles - System Admin | 27th March | |
| 4. | Create Website Interfaces and function to search for specific ussr profile - System Admin | 28th March | |
| 5. | Creation of new use case for suspend user account in Website - System Admin | 30th March | |
| 6. | Creation of new use case for re-activate user account in Website - System Admin | 30th March | |
| 7. | Creation of new use case for view all user profile in Website - System Admin | 29th March | |

## 12.4. Current Work

The team created the database along with the tables to store the information. The team are currently working on the login pages for the System Administrator and the Customer.

## 12.5. List of Current Work Items/Activities:

| S/No | Work Item | % Completed | Expected Completion Date |
|------|-----------|-------------|--------------------------|
| 1. | Create Website Interfaces and function to sign up as new customer - Customer | 20 | 3rd April |
| 2. | Creation of new use case for view a user profile in Website - System Admin | 40 | 4th April |
| 3. | Test cases, sequence diagrams and wireframes for the newly created functions | 20 | 3rd April |
| 4. | Progress Report | 45 | 19th May |
| 5. | User Manual | 50 | 19th May |
| 6. | Researching on using api for qr generation | 50 | 5th April |

## 12.6. Future Work

The team needs to come up with a way for new users to sign in and book the hotel rooms on the website, hence we want to come up with a way to create that. We also need to have a way for the system admin to view a user profile separately. The wireframes, test cases, sequence diagrams and use case descriptions need to be created for that.

## 12.7. Problems Encountered

There are no problems encountered.

## 12.8. Overall Assessment

The team has started to come up on their own to inform the other members on their update in the middle of the week. The communication between everyone was fast and smooth, any queries or doubts raised were answered soon.

# 13. Week 12 (31ˢᵗ March 2023 - 6ᵗʰ April 2023)

## 13.1. Overview

The team focused on tidying up the current websites and also added a new function for new users to sign up as customers to do booking and also an extra page where the system admin can view a specific profile in the website.

## 13.2. Work Completed

The team created the website interfaces and the functions for the Hotel Operator.

## 13.3. List of Completed Work Items/Activities

| S/No | Work Item | When Completed | Comment |
|------|-----------|----------------|---------|
| 1. | Create Website Interfaces and function to sign up as new customer - Customer | 3rd April | |
| 2. | Creation of new use case for view a user profile in Website - System Admin | 4th April | |
| 3. | Test cases, sequence diagram and wireframes for the newly created functions | 6th April | |
| 4. | Research on using API to generate QR codes | 5th April | |

## 13.4. Current Work

The team created the database along with the tables to store the information. The team are currently working on the login pages for the System Administrator and the Customer.

## 13.5. List of Current Work Items/Activities:

| S/No | Work Item | % Completed | Expected Completion Date |
|------|-----------|-------------|--------------------------|
| 1. | Implement the main website into online server | 50 | 10th April |
| 2. | Adding in more hotels | 40 | 12th April |
| 3. | Testing of main website in the new server setup | 0 | 13th April |
| 4. | Implementing of automatic generation of QR Codes | 20 | 15th April |

| 5. | Progress Report | 55 | 19th May |
|----|-----------------|----|-----------| 
| 6. | User Manual | 55 | 19th May |

## 13.6. Future Work

The team wants to move the main website into an online server. Along with that, we want to add more hotels and implement the automatic generation of QR codes.

## 13.7. Problems Encountered

There are some problems during the basic setup of using the online server.

## 13.8. Overall Assessment

I think the team has been quite on track, except that the application needs to be put on hold for a while due to the setup of a new online server.

# 14.  Week 13 (7ᵗʰ April 2023 -  13ᵗʰ April 2023)

## 14.1.  Overview

The team focused on implementing the website into an online server and testing it. At the same time, there were more hotels and rooms being added.

## 14.2.  Work Completed

The team implemented the main website into server successfully and added more hotels and rooms

## 14.3.  List of Completed Work Items/Activities

| S/No | Work Item | When Completed | Comment |
|------|-----------|----------------|---------|
| 1. | Implement the main website into online server | 10th April | |
| 2. | Adding in more hotels | 12th April | |
| 3. | Testing of main website in the new server setup | 13th April | |

## 14.4.  Current Work

The team wants to implement the admin website into the online server and test it. After that, they want to add the new hotels code inside the online server also.

## 14.5.  List of Current Work Items/Activities:

| S/No | Work Item | % Completed | Expected Completion Date |
|------|-----------|-------------|--------------------------|
| 1. | Implementing of admin website in the online server | 20 | 19th April |
| 2. | Testing of admin website in the new server setup | 0 | 20th April |
| 3. | Adding the codes of more hotels in the online server | 0 | 18th April |
| 4. | Adding Validation for Customer | 10 | 16th April |
| 5. | Adding in of Test Cases for Customer | 0 | 20th April |
| 6. | User Manual | 60 | 15th May |
| 7. | Progress Report | 60 | 17th May |

## 14.6.  Future Work

The team wants to move the admin website into the online server. Along with that, we want to add more hotels and implement the automatic generation of QR codes.

## 14.7.  Problems Encountered

There were some problems regarding the formatting of the website once it was moved to an online server.

## 14.8.  Overall Assessment

The team has been working on fixing the problems and also as a backup measure, we are trying to find other platforms to work on.

# 15. Week 14 (14th April 2023 - 20th April 2023)

## 15.1. Overview

The team focused on implementing admin website inside the online server and also doing the validation along with test cases for customers,

## 15.2. Work Completed

The team seems to have a bit of trouble implementing the admin website and also adding some validation for the customer side.

## 15.3. List of Completed Work Items/Activities

| S/No | Work Item | When Completed | Comment |
|------|-----------|----------------|---------|
| 1. | Implementing of admin website in the online server | 19th April | |
| 2. | Testing of admin website in the new server setup | 20th April | |
| 3. | Adding the codes of more hotels in the online server | 18th April | |
| 4. | Adding Validation for Customer | 16th April | |
| 5. | Adding in of Test Cases for Customer | 20th April | |

## 15.4. Current Work

The team is working on changing the whole system admin interface and adding validation for hotel operator. Furthermore, we want to do the validation and test cases for hotel operator

## 15.5. List of Current Work Items/Activities:

| S/No | Work Item | % Completed | Expected Completion Date |
|------|-----------|-------------|--------------------------|
| 1. | Changing of System Admin interface | 0 | 27th April |
| 2. | Adding in of Test Cases for Hotel Operator | 10 | 25th April |
| 3. | Adding Validation for Hotel Operator | 0 | 27th April |
| 4. | User Manual | 65 | 15th May |
| 5. | Progress Report | 65 | 17th May |

## 15.6.  Future Work

The team needs to check if the new system admin interface works and make sure that the validation for Hotel Operator tallies with the Test Cases for the Hotel Operator.

## 15.7.  Problems Encountered

There were some problems while adding the system admin in the online server..

## 15.8.  Overall Assessment

I think the team is being cooperative and are helping each other out. We seem to be handling the pressure well.

# 16. Week 15 (21ˢᵗ April 2023 - 27ᵗʰ April 2023)

## 16.1. Overview

The team focused on doing up the website interfaces for the System Administrator, Hotel Operator and Customer alongside the mobile application with the QR code scanner for the Customer to scan the QR code to enter the hotel room.

## 16.2. Work Completed

The team created the website interfaces and the functions for the Hotel Operator.

## 16.3. List of Completed Work Items/Activities

| S/No | Work Item | When Completed | Comment |
|------|-----------|----------------|---------|
| 1. | Changing of System Admin interface | 27th April | |
| 2. | Adding in of Test Cases for Hotel Operator | 25th April | |
| 3. | Adding Validation for Hotel Operator | 27th April | |

## 16.4. Current Work

The team are focusing on the validation and test cases for system admin. Along with that we are adding new features and functions like adding room and generating QR codes as Hotel Operator and also allow customer to delete a hotel booking and viewing a specific hotel booking.

## 16.5. List of Current Work Items/Activities:

| S/No | Work Item | % Completed | Expected Completion Date |
|------|-----------|-------------|--------------------------|
| 1. | Adding Validation for System Admin | 10 | 1st May |
| 2. | Adding in of Test Cases for System Admin | 0 | 4th May |
| 3. | Create Website Interface and function for the adding room - Hotel Operator | 10 | 5th May |
| 4. | Create Website Interfaces for the generating QR codes - Hotel Operator | 10 | 8th May |
| 5. | Create Website Interface and function for the deleting hotel booking - Customer | 10 | 5th May |

| | | | |
|---|---|---|---|
| 6. | Create Website Interface and function for viewing a specific hotel booking - Customer | 10 | 8th May |
| 7. | Fixing errors of the QR Code Scanner | 30 | 5th May |
| 8. | Updating of flows and diagrams for Customer and Hotel Operator | 30 | 11th May |
| 9. | User Manual | 70 | 15th May |
| 10. | Progress Report | 70 | 17th May |

## 16.6. Future Work

The team need to create few new functions and interfaces like adding room, generating QR Codes, deleting a hotel booking, viewing a specific hotel booking and fixing of QR code Scanner

## 16.7. Problems Encountered

The QR Code Scanner did not work after changing some parts of the interface

## 16.8. Overall Assessment

I think the team is doing well. We have just shifted to a new server. Hence we are trying to adapt and fix all the errors according to that.

# 17. Week 16 (28th April 2023 - 4th May 2023)

## 17.1. Overview

The team focused on creating a few new functions and interfaces like adding rooms, generating QR Codes, deleting a hotel booking, viewing a specific hotel booking and fixing the QR code Scanner.

## 17.2. Work Completed

The team focussed on creating a few new functions and interfaces like adding rooms, generating QR Codes, deleting a hotel booking and viewing a specific hotel booking in the website  and fixing of QR code Scanner in mobile application. After all these changes are made, the same changes are updated in all the necessary documents.

## 17.3. List of Completed Work Items/Activities

| S/No | Work Item | When Completed | Comment |
|------|-----------|----------------|---------|
| 1. | Adding in of Test Cases for System Admin | 2nd May | |
| 2. | Adding Validation for System Admin | 4th May | |
| 3. | Create Website Interface and function for the adding room - Hotel Operator | 5th May | |
| 4. | Create Website Interfaces for the generating QR codes - Hotel Operator | 8th May | |
| 5. | Create Website Interface and function for the deleting hotel booking - Customer | 5th May | |
| 6. | Create Website Interface and function for viewing a specific hotel booking - Customer | 8th May | |
| 7. | Fixing errors of the QR Code Scanner | 5th May | |

## 17.4. Current Work

The team has changed their plan on how the payment process work and adding in fingerprint verification in the mobile application.

## 17.5. List of Current Work Items/Activities:

| S/No | Work Item | % Completed | Expected Completion Date |
|------|-----------|-------------|--------------------------|
| 1. | Updating of payment process in Website | 30 | 5th May |
| 2. | Creation of new use case for profile page in Mobile App. | 10 | 8th May |
| 3. | Creation of new use case for fingerprint scanner in Mobile App. | 10 | 6th May |
| 4. | Update of flow of use case for payment process in Website. | 30 | 7th May |
| 5. | Authentication process of fingerprint in Mobile App | 25 | 7th May |
| 6. | Create Profile Page for Mobile App | 10 | 8th May |
| 7. | Updating of flows and diagrams for Customer and Hotel Operator | 60 | 11th May |
| 8. | User Manual | 75 | 15th May |
| 9. | Progress Report | 75 | 17th May |

## 17.6. Future Work

The team needs to create a page to display all the different rooms that are available in the hotel through the website. A separate page for the customer to reserve the room that the customers want. The team also needs to show the customer more information about the hotel and how to contact the hotel.

## 17.7. Problems Encountered

There are no problems encountered.

## 17.8. Overall Assessment

I think the team has gotten the basics that are needed for the website that is necessary for the final submission.

# 18.  Week 17 (5th May 2023 -  11th May 2023)

## 18.1.  Overview

The team focused on editing the payment process on the website, inserting the fingerprint scanner and profile page in Mobile application and finally editing and updating of the use case flows, diagrams and test cases for Mobile Application.

## 18.2.  Work Completed

The team focussed on changing the process flow for the payment in website and adding of the fingerprint verification along with the profile page in mobile application. After all these changes are made, the same changes are updated in all the necessary documents.

## 18.3.  List of Completed Work Items/Activities

| S/No | Work Item | When Completed | Comment |
|------|-----------|----------------|---------|
| 1. | Updating of payment process in Website | 5th May | |
| 2. | Creation of new use case for profile page in Mobile App. | 8th May | |
| 3. | Creation of new use case for fingerprint scanner in Mobile App. | 6th May | |
| 4. | Update of flow of use case for payment process in Website. | 7th May | |
| 5. | Authentication process of fingerprint in Mobile App | 7th May | |
| 6. | Create Profile Page for Mobile App | 8th May | |
| 7. | Updating of flows and diagrams for Mobile App | 11th May | |

## 18.4.  Current Work

The team created the database along with the tables to store the information. The team are currently working on the login pages for the System Administrator and the Customer.

## 18.5.  List of Current Work Items/Activities:

| S/No | Work Item | % Completed | Expected Completion Date |
|------|-----------|-------------|--------------------------|
| 1. | Figma | 80 | 13th May |
| 2. | User Manual | 80 | 15th May |

| | | | |
|---|---|---|---|
| 3. | Progress Report | 80 | 17th May |
| 4. | Project Requirements | 70 | 16th May |
| 5. | Test Cases | 80 | 14th May |
| 6. | Wireframes | 90 | 14th May |
| 7. | Presentation slides | 0 | 20th May |
| 8 | Demonstration Video | 0 | 19th May |

## 18.6. Future Work

The team needs to create a page to display all the different rooms that are available in the hotel through the website. A separate page for the customer to reserve the room that the customers want. The team also needs to show the customer more information about the hotel and how to contact the hotel.

## 18.7. Problems Encountered

There are no problems encountered.

## 18.8. Overall Assessment

I think the team have gotten the basics that are needed for the website that is necessary for the mid-point prototype submission.

# 19.  Week 18 (12th May 2023 -  20th May 2023)

## 19.1.  Overview

The team focused on checking and going through all the documents to see if there is anything left out, needs to be added or needs to be changed.

## 19.2.  Work Completed

The team has successfully fully completed all the interfaces and functions regarding the website interfaces and the app.

## 19.3.  List of Completed Work Items/Activities

| S/No | Work Item | When Completed | Comment |
|------|-----------|----------------|---------|
| 1. | Creation and submission of demonstration video | 20th May | |
| 2. | Update and submission of Project Requirements Document | 20th May | |
| 3. | Update and submission of Project Progress Report | 20th May | |
| 4. | Update and submission of User Manual | 20th May | |
| 5. | Update and submission of Test Cases Report for System Admin | 20th May | |
| 6. | Update and submission of Test Cases Report for Hotel Operator | 20th May | |
| 7. | Update and submission of Test Cases Report for Customer | 20th May | |
| 8. | Creation and submission of Presentation Slides | 20th May | |

## 19.4.  Current Work

The team has to combine all the documents, codes and the video for the submission on 20th May 2023.

## 19.5.  Future Work

The team needs to get together and practice and get ready for the final presentation.

## 19.6. Problems Encountered

There were some problems with taking video and putting the screenshots of some test cases in the document.

## 19.7. Overall Assessment

I think the team had some mishaps while doing the video, but somehow we managed to come together and put it all together.