

# Requirements and Wireframes: Team Assignment 1

**Team Name: Argonauts**

## **TEAM MEMBERS:**

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## **Responsibilities:**

Pair 1 (ah3450, rf2598): User Story 1,2,3

Pair 2 (nd2561, my2541): User Story 4,5

## **User Stories**

1. Create an account (Sign Up)
  - a. As a user who wants to rent a parking spot I should be able to sign up in the system.
  - b. As a user who wants to put up my parking spot up for rent I should be able to sign up in the system.
2. Log in
  - a. As an existing user I should be able to log in to the system using my unique email id and password.
3. Log out
  - a. As an existing user I should be able to log out of the system.
4. Update User Profile
  - a. As a user I should be able to update their profile with their details.
5. Insert Parking Spot Details
  - a. As a user I should be able to insert the details of my parking spot like Address, size etc.

## Use Cases

Use Case 1 :

Name : SignUp

ID : UC\_001

Description : The user lands on a form to fill out their information, once he clicks on the sign up button. Have to make sure the User doesn't exist in the system.

Actors : The user who wants to Sign up

Frequency of Use : Depends on the number of new users. Everyone who wants to use the features of the website must sign up.

Triggers : The user clicks the sign up button

Pre-Conditions : The user should not exist in the system. Should have a valid Email-ID

Post-Conditions : Exactly one instance of the User exists on the Database. The user is allowed to access the other features of the website.

The User is visible to other users only if the User is renting out a Parking Spot.

Main Course :

1. User Clicks the SignUp button
2. The system prompts the user to submit the details through a SignUp form
3. The user fills out the form with valid data.
4. The system validates the data.
5. The system stores the data if validated.
6. The system redirects the user to login to the website with the newly created User ID (Use Case 2)

Alternate Courses:

AC1 : Cancelling SignUp

1. The user clicks the Sign Up button
2. The system prompts the user to submit the details through a SignUp form
3. User then cancels the Sign Up by clicking the Cancel button

AC2 : User submits Invalid Data

1. Return to Main Course Step 2

AC3 : User already exists

1. Return to Main Course Step 6

Exceptions :

EX1 : System Fails on saving the User Data into the database.

1. Alert the user on the error
2. Return to Main Course Step 2

Use Case 2 :

Name : Login

ID : UC\_002

Description : The user has to log in to access and use the rest of the website.

Actors : Users who have an account with Parq.

Frequency of Use : Everyone who wants to access the features of the website must log in.

Triggers : The user enters his/her email and password, then clicks the “Login” button

Pre-Conditions : The user should exist in the system. Should have a valid Email-ID

Post-Conditions : The user is logged in and allowed access to other features of the website. The user remains logged in for the duration of the time until they log off.

Main Course :

1. User is directed to a login page.
2. System prompts the user to fill out a form with their email and password.
3. The user fills out the form with data (email and password)
4. System validates the data.
5. If valid, the system checks to see if the data corresponds to any user stored within the database.
6. If determines that the user exists within the database, assigns session token for the user so that they remain logged on.
7. User is redirected to page containing features of the website (view profile, rent a parking space, etc.)

Alternate Courses:

AC1 : User submitted Invalid data (i.e. email address not valid)

1. Return to Main course Step 2.

AC2 : Failed database query - User entered incorrect username or incorrect password (or user does not exist)

1. System informs the user of invalid username/password combination
2. Return to Main course Step 2 or user can sign up (UC\_001)

Exceptions :

EX1 : System Fails on querying the User Data from database

1. Informs the user of invalid username/password combination.
2. Return to Main Course Step 2

EX2: User decides to sign up instead of login in

1. See “SignUp” use case.

### Use Case 3:

Name : Logout

ID : UC\_003

Description : The user wants to end his session by logging out.

Actors : Users who have an account with Parq and are logged in.

Frequency of Use : Everyone who is logged in may want to end their session.

Triggers : The user clicks the 'logout' button.

Pre-Conditions : The user should be logged in and currently in a session. No log out option is possible without the user being logged in.

Post-Conditions : The user is logged out and returned to the log in page

### Main Course :

1. User clicks the log out button.
2. System terminates the user's session.
3. System redirects the user to the log in page.

### Alternate Courses:

### Exceptions :

EX1 : System fails to terminate the session.

1. User stays logged on.
2. System notifies user that error has occurred.

### Use Case 4 :

Name : Profile Update

ID : UC\_004

Description : The user needs to be able to update their profiles with any new information.

Actors : The user who has an account with Parq and are logged in.

Frequency of use : Not many users update their information frequently.

Trigger : User clicks on the update profile button.

Pre-Conditions : The user should have an account with Parq and should have logged in.

Post Conditions : The database now contains the updated user information.

### Main Course :

1. User clicks on the Update Profile Button.
2. System takes the user to a Profile Update form.
3. The user chooses the information field to be updated and fills in the new information.

4. The user clicks submit.
5. The system validates the data.
6. The system stores the data if validated.
7. The system informs the user regarding the update.

Alternate Courses :

AC1 : Submit Invalid data

1. The system informs the user that the data is invalid.
2. Redirect to Step 2 in Main course.

AC2 : Cancel Update

1. The user cancel the update action by clicking the cancel button on the update profile form.
2. The system redirects the user to home page.

AC3 : User does not change any data

1. The system still performs the validation and stores it in the database.

Exceptions :

EX1 : Update failure

1. Inform the user of the failure to update.
2. Redirect to step 2 in Main course.

Use Case 5 :

Name : Insert parking spot.

ID : UC\_005

Description : A user wanting to rent out their parking spot need to be able to put the details regarding the same on to the system.

Actors : The user who wants to rent out their parking spot.

Trigger : The user clicks on the Add Parking Spot button

Pre-Conditions : The user should have an account with Parq and should be signed in. The user should also be the one responsible for the parking spot. The parking spot should not be present in the database already.

Post Conditions: The details of the parking spot should be inserted into the database. The new parking spot is visible to the other users who want to rent a parking space.

Main Course :

1. The user clicks on the Add Parking Spot button.
2. The system takes the user to an Add Parking Spot form.
3. The user fills out the form regarding the details of his parking spot.

4. The system validates the data.
5. The system makes sure that the parking spot does not already exist in the Database.
6. The system inserts the details into the database.
7. The system then redirects the user to the page which displays the parking spots the user owns.

Alternate course:

AC1 : Cancel Add parking spot.

1. The user clicks on the cancel button.
2. The system redirects the user to home.

AC2 : Parking spot already exists.

1. The system informs the user that the parking spot already exists.
2. Redirect to Step 2 in Main Course.

AC3 : Invalid data.

1. The system informs the user that the data is invalid.
2. Redirect to Step 2 in Main course.

Exceptions :

EX 1 : Database update failure.

1. The system fails to insert the parking spot details into the Database.
2. The system informs the user regarding the same
3. Redirect to Step 2 in Main Course

# Wire Frameworks

## 1. Login

A wireframe of a login page for a website called "ParQ". The page is displayed in a browser window with a single tab labeled "Page 1" and a URL bar showing "https://www.default.com". The main heading "ParQ" is at the top. Below it, the text "Welcome to ParQ" is on the left. To the right of this text is a large rectangular area with a diagonal 'X' inside, likely a placeholder for an image. On the left side, there is a login form with two input fields labeled "Username:" and "Password:", followed by a "Login" button. Below the form, there is a link "Are you a new user ?" and a "Sign Up" button.

Page 1

https://www.default.com

# ParQ

Welcome to ParQ

Username:

Password:

Login

Are you a new user ?

Sign Up

## 2. Sign Up

A wireframe of a sign up page for a website called "ParQ". The page is displayed in a browser window with a single tab labeled "Page 1" and a URL bar showing "https://www.default.com". The main heading "ParQ" is at the top. Below it, the text "Sign Up" is centered. On the left side, there is a sign up form with four input fields labeled "First Name :", "Last Name:", "Email Address :", and "Password:", followed by a "Submit" button.

Page 1

https://www.default.com

# ParQ

## Sign Up

First Name :

Last Name:

Email Address :

Password:

Submit

### 3. Update User Profile and Logout

The screenshot shows a web browser window with the address bar displaying 'https://www.default.com'. The page title is 'Page 1'. The main heading is 'ParQ'. Below the heading, there are three buttons: 'Update Profile', 'Add Parking Spot', and 'Logout'. The 'Update Profile' button is selected, and the 'Update User Profile' form is displayed. The form contains three input fields: 'Name', 'Address', and 'Phone Number', each with a label and a text input box. A 'Submit' button is located at the bottom of the form.

Page 1

https://www.default.com

# ParQ

Update Profile Add Parking Spot Logout

## Update User Profile

Name :

Address:

Phone Number:

Submit

### 4. Add Parking Spot and Logout

The screenshot shows a web browser window with the address bar displaying 'https://www.default.com'. The page title is 'Page 1'. The main heading is 'ParQ'. Below the heading, there are three buttons: 'Update Profile', 'Add Parking Spot', and 'Logout'. The 'Add Parking Spot' button is selected, and the 'Add Parking Spot' form is displayed. The form contains three input fields: 'Address Line 1', 'Address Line 2', and 'Area', each with a label and a text input box. A 'Submit' button is located at the bottom of the form.

Page 1

https://www.default.com

# ParQ

Update Profile Add Parking Spot Logout

## Add Parking Spot

Address Line 1:

Address Line 2:

Area

Submit