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| Project: | | Mobile Mech | | | |
| Team No.: | | Team#4 | | | |
| Class: | | CSE 3310; Fall 2024 | | | |
| Module: | | Test Plan | | | |
| Deliverable: | | Test Plan Document | | | |
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**Revision History**

| ***Version number*** | ***Date*** | ***Originator*** | ***Reason for change*** | ***High-level description of changes*** |
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# 1. Introduction and Plan of Approach

The Mobile Mech App is an innovative Android application designed to connect users with professional mechanics, offering a convenient and efficient way to access automotive repair and maintenance services. Inspired by healthcare apps like ZocDoc or Teledoc that provide "on-demand" services, the Mobile Mech App aims to bring similar convenience to the automotive repair industry.

The android project will consist of 8 different components: Registration and Sign in, User Profile, Communication, Mechanic Profile, Reporting, Payment, Appointment, Search. When the user logs in to the application, they will be prompted to register or sign in. If they are an existing user, the user will simply sign in using their email and password. Otherwise the user will have to register. There will be both user and mechanic profiles so that both parties can have a bit of an overview. There will be ways of communication for the user with the mechanic. In the app, there will be an option to transact money from the user to the mechanic. Similar to ride apps, there will be reviews available of the mechanic so that the user can choose whom to contact best.

# 2. Test Cases: “[REGISTRATION AND LOGIN](#_heading=h.tyjcwt)”

**Project Name:** Mobile Mech

**Test Case Name:** Registration and Login

**Test Case Id**: CSE3310/Fall 2024/Team4/Registration-and-Login

| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| --- | --- | --- | --- |
| TC1 | Enter the login screen and press “Register new user” | The system should display and collect the information below and establish a new user ID and Password:   * First & Last Name * Email address * User ID (at least 6 characters, may not include any wild characters * Password (at least 8 charters, must include a number and wild character) * Answer to security question “In what city were you born?”, i.e., for password reset |  |
| TC2 | Enter the login screen and try to register the same ID once again | The system should provide an error message that “user already exists” |  |
| TC3 | Tab into the User and password fields and enter a valid user ID/password (a test ID should be created and provided to testers) | System should let you in |  |
| TC4 | Tab into the User and password fields and enter an invalid user ID/password (tester: please make up any user/password) | System should not accept and prevent you from entry |  |
| TC5 | Enter a valid user ID (use the valid ID from TC1) and press “Forgot Password” | The system should ask for your e-mail address and ask for the answer to a security question, if the requested information is provided, a temporary password should be created, and the system should encourage the user to change this randomly generated password |  |

# 3. Test Cases: “User Profile”

**Project Name:** Mobile Mech

**Test Case Name: User Profile**

**Test Case Id**: CSE3310/Fall2024/Team4/User Profile

| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| --- | --- | --- | --- |
| TC1 | Updating user profile picture from the default profile picture. Image should fit the allowed size (notify user picture is too big/small if not within allowed sizes). | Users should navigate to the user profile page and select to edit the profile. From there, they can trade the default profile picture for a profile picture they have uploaded from their device. Image should have the same rotation as the uploaded photo. Users should receive an error if the image is the wrong size. |  |
| TC2 | Updating user profile picture from the current profile picture. Image should fit the allowed size (notify the user the picture is too big/small if not within allowed sizes). | Users should navigate to the user profile page and select to edit the profile. From there, they can trade the current profile picture for a profile picture they have uploaded from their device. Image should have the same rotation as the uploaded photo. Users should receive an error if the image is the wrong size. |  |
| TC3 | Alter the user name from the name entered when creating their account. The user should be able to open the profile page, choose to edit their profile, and enter and save a new user name. | Saving the user name should cause the page to refresh and display the new name. |  |
| TC4 | Updating user location. The app detects user location by default, but users may choose to edit their profile and change their current location for another one. | Update what user location is displayed. |  |
| TC5 | Update password. Like all other user specific details, users can navigate to the profile page and update their profile. | Update the used password used to access the app. |  |

# 4. Test Cases: “Communication”

**Project Name:** Mobile Mech

**Test Case Name: Communication**

**Test Case Id**: CSE3310/Fall2024/Team4/Communication

| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| --- | --- | --- | --- |
| TC1 | User selects Messages tab | The user will be prompted by three options: “View Messages”, “Compose Message”, “Send Payment”, or “Request Payment” if the user is a Mechanic |  |
| TC2 | View Messages | If selected the user should be able to view all and select messages in their inbox |  |
| TC3 | Compose Message | Users will be prompted with a text box to enter their text and enter the mechanic’s name. After their input is complete, the user clicks “Send”. |  |
| TC4 | Confirmation Message Sent | After user clicks, “Send”, user will receive a confirmation screen that message was successfully sent |  |
| TC5 | Send Payment | After a Mechanic user has requested payment to a user, the user will be able to select “Send Payment” and will be redirected to “Payment” to complete the transaction |  |
| TC6 | Request Payment | After a Mechanic user engages with a potential customer, they are able to select Request Payment to send an invoice to a user |  |

# 5. Test Cases: “Mechanic Profile”

**Project Name:** Mobile Mech

**Test Case Name:**  Mechanic Profile

**Test Case Id**: CSE3310/Fall 2024/Team4/Mechanic-Profile

| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| --- | --- | --- | --- |
| TC1 | Updating mechanic profile picture from the default profile picture. Image should fit the allowed size (notify user picture is too big/small if not within allowed sizes). | Mechanics should navigate to the mechanic profile page and select to edit the profile. From there, they can trade the default profile picture for a profile picture they have uploaded from their device. Image should have the same rotation as the uploaded photo. Mechanics should receive an error if the image is the wrong size. |  |
| TC2 | Updating mechanic profile picture from the current profile picture. Image should fit the allowed size (notify the user the picture is too big/small if not within allowed sizes). | Mechanics should navigate to the mechanic profile page and select to edit the profile. From there, they can trade the current profile picture for a profile picture they have uploaded from their device. Image should have the same rotation as the uploaded photo. Mechanicss should receive an error if the image is the wrong size. |  |
| TC3 | Alter the mechanic name from the name entered when creating their account. The mechanic should be able to open the profile page, choose to edit their profile, and enter and save a new user name. | Saving the mechanic name should cause the page to refresh and display the new name. Reviews, ratings, and other mechanic statistics should remain unchanged. |  |
| TC4 | Updating mechanic location. The app detects mechanic location by default, but mechanics may choose to edit their profile and change their current location for another one. | Update what mechanic location is displayed. |  |
| TC5 | Update password. Like all other mechanic specific details, users can navigate to the profile page and update their profile password. | Update the mechanic password used to access the app. |  |
| TC6 | Each mechanic can set, if they choose to, a price range for their services. There is no price range displayed by default.They can both set and alter the price range by navigating to the profile page and choosing to edit it. | If mechanics edit their price range, said price range should update and display in the app. Range should not display outside of the permitted minimum and maximum values. |  |
| TC7 | Each mechanic has a section to list which services in the auto industry their traveling service provides. They can update this list any time by navigating to the profile page and choosing to edit it. | Profile page should update services based on what was removed and added. |  |
| TC8 | Review added to mechanic profile. Mechanics cannot alter the review left by user profiles. However, the profile page should automatically update and display any reviews and ratings added by user profiles in the app. | Mechanic profile overall rating and reviews update based on reviews added by users. |  |

# 6. Test Cases: “Reporting”

**Project Name:** Mobile Mech

**Test Case Name: Reporting**

**Test Case Id**: CSE3310/Fall 2024/Team4/Reporting

## 

| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| --- | --- | --- | --- |
| TC1 | User should be able to report message(s) that break the ToS | The user should be able to select messages in a conversation and be able to file a report |  |
| TC2 | Display Text Box prompt | After user selects report, the user should be prompted with a text box to enter their reason for reporting |  |
| TC3 | Return Home | Throughout the entire process, the user will be able to click a button to return home if they decide to change their mind |  |
| TC4 | Submit Report | After user finishes entering their text, they should be able to click a button that says submit report |  |
| TC5 | Confirmation | After report is submitted, user should get a confirmation screen and user returns back to messages |  |

# 7. Test Cases: “Payment”

**Project Name:** Mobile Mech

**Test Case Name: Payment**

**Test Case Id**: CSE3310/Fall 2024/Team4/Payment

## 

| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| --- | --- | --- | --- |
| TC1 | Enter the payment page and be prompted to choose between two payment methods: Credit card or cash on payment | There will be given the choices of choosing the payment method. Based on that, the screen should change and go to the desired payment method page. There may be an option to go back and change your selection. |  |
| TC2 | For credit card, it prompts the user to accept necessary information | The user is prompted to add personal information and card details like-   * Enter the name of the card holder * Enter address and zip code * Enter CVV of the card |  |
| TC3 | For cash on payment, it prompts the user to accept necessary information | The user is prompted to enter the name of the payer and the amount to be paid. A notification of pending payment will be sent to both user and mechanics and will be confirmed by the mechanic when the payment is done in person. |  |
| TC4 | User payment successfully authorized | The app should display ‘payment accepted’ and send a notification to both user and mechanic that the payment was processed in the app. An online receipt will be sent for successful payment to both parties as a confirmation message. |  |
| TC5 | User payment failed | The app should display a ‘payment failed’ message. Then the user will be prompted to-   * change payment method * enter new payment information * correct the existing information where it is marked in red. For eg. CVV/ Name of card holder |  |

# 8. Test Cases: “Appointment”

**Project Name:** Mobile Mech

**Test Case Name: Appointment**

**Test Case Id**: CSE3310/Fall 2024/Team4/Appointment

## 

| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| --- | --- | --- | --- |
| TC1 | Enter the mechanic profile and press “Make an appointment” | The system should display and collect the information below to confirm a new appointment:   * First & Last Name * Email address * Meeting Location * Appointment Date & Time |  |
| TC2 | User tries to edit an existing appointment | The system should display and collect the information below to edit an existing appointment:   * First & Last Name * Email address * New Meeting Location * New Date & Time * Reason for change |  |
| TC3 | User wants to cancel the appointment | The user has to provide a reason in the text box provided. The appointment will be canceled and a confirmation email will be sent to both user and mechanic. |  |
| TC4 | Confirm the appointment | The user and mechanic will both receive a confirmation email. |  |
| TC5 | Add to calendar | The appointment is added to calendar and a reminder is set. |  |

# 9. Test Cases: “Search”

**Project Name:** Mobile Mech

**Test Case Name: Search**

**Test Case Id**: CSE3310/Fall 2024/Team4/Search

## 

| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| --- | --- | --- | --- |
| TC1 | Enables the user to search for services. Test case is to search partial words, like if enter is hit too early by accident. | For snippets of words such as “oi” for “oil change, “brake” for “brake check”, or “wipe” for “wiper fluid” the app should search for the best match from listed services. Mechanics who offer the corresponding best match service will be displayed from best rated to worst rated by default. |  |
| TC2 | Search with complete phrases such as “oil change”, “brake check”, and “wiper fluid”. | Mechanics who offer the corresponding best match service will be displayed from best rated to worst rated by default. |  |
| TC3 | Test extremely long search entries, such as “oil change and brake check for lexus RX350” | Search should accept any string of words, up to a certain length, parse into tokens via the white spaces, and create best matches based on each token. In this case, search would provide matches for tokens oil, change, brake, check. Car makes and models are not part of services. |  |
| TC4 | Try to enter a string of words over the character limit | The search bar will not accept a string of characters which extends past the character limit. |  |
| TC5 | Enter one long string of words, with no white spaces to parse, such as “brakecheckandoilchange | With no spaces to indicate tokens, this will be treated as one long token, and there are likely to be no matches. If no matches is the case, app should display something like “No matches found, enter a new search” |  |