Design of tests

| Upgrading a user |
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| **Tests:** Data manager,Graphical user interface |
| **Assumptions :** Assuming that an admin is logged in and a user has put in a upgrade request |
| **Integration Testing** |
| **Steps:**   * Accepting the user request * Data manager gets updated that this user is an expert * The user interface will change to the expert view   **Expected:**  Accepting should change the user from a regular user to an expert and they can access all expert privileges  **Fails if:**   * After accepting the user interface does not change to the expert view * Upgraded user has no access to expert privileges meaning that his user type hasn't changed |

| Downgrading a user |
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| **Tests:** Data manager,Graphical user interface |
| **Assumptions :** Assuming that an admin is logged in and a user poor performance |
| **Integration Testing** |
| **Steps:**   * Pressing the downgrade button * User info is retrieved from the data storage * Info is changed to satisfy a regular user description   **Expected:**  Downgrading a user should restrict his access to user privileges only  **Fails if:**   * Downgraded user still has access to expert privileges * User interface doesn't change |

| Monitoring activity |
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| **Tests:** Graphical user interface,Data manager |
| **Assumptions :** Assuming that an admin is logged in and chooses to monitor a user |
| **Integration Testing** |
| **Steps:**   * Pressing the monitor button * User’s session info is retrieved from the data storage   **Expected:**  History of user sessions should be displayed  **Fails if:**   * No history is displayed * History is displayed but incomplete |

| Accepting/Declining an expert slot |
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| **Tests:** Graphical user interface |
| **Assumptions :** Assuming that the expert has accepted my request and sent me his available time slots |
| **Integration Testing** |
| **Steps:**   * Press accept to accept a time slot * Pressing decline will show that the time slot does not suit the user   **Expected:**  Accepting will send confirmation to both user and expert with a certain url on which they can both communicate  **Fails if:**   * The time slot does not get accepted * Confirmation does not get sent to one or more of the involved parties |

| Viewing a user’s inbox |
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| **Tests:** Graphical user interface |
| **Assumptions :** Assuming that the user has already requested to communicate with expert(s) |
| **Integration Testing** |
| **Steps:**   * Press show inbox to check out new messages   **Expected:**  The inbox should show the replies of the requested expert(s)  **Fails if:**   * Inbox is empty even after an expert sends his reply |

| Rating of session |
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| **Tests:** User interface |
| **Assumptions :** Assuming that the user has finished his office hours sessions with an expert and the user gave an input of a desire rating for this session |
| **Integration Testing** |
| **Steps:**   * User interface takes the input from the user   **Expected:**  Graphical user interface correctly displays new rating  **Fails if:**   * Graphical user interface does not display the user inputted rating |

| Sign Up |
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| **Tests:** Graphical user interface,Data manager |
| **Assumptions :** User has filled registration form and is on correct screen. |
| **Integration Testing** |
| **Steps:**   * Press the register now button to sign up * Data manager receivers signup information   **Expected:**  You get redirected to the main page(view) as a logged in user  **Fails if:**   * User gets a pop-up message saying that there was a problem while trying to register. * User doesn't get redirected to the main page. |

| Login |
| --- |
| **Tests:** Graphical user interface |
| **Assumptions :** User has entered his login data and is on the correct screen. |
| **Integration Testing** |
| **Steps:**   * User presses the login button   **Expected:**  User gets redirected to the main page and his username appears on the upper right side of the screen and a logout button appears  **Fails if:**   * User is notified that there was a problem while logging in * User doesn't get redirected to the main page |

| Logout |
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| **Tests:** Graphical user interface |
| **Assumptions :** The application is showing the correct screen (a user is logged in) |
| **Integration Testing** |
| **Steps:**   * User presses the logout button   **Expected:**  User gets redirected to the basic view where he can either signup or login  **Fails if:**   * User is notified that there was a problem while logging out * User doesn't get redirected to the basic view |

| Editing info |
| --- |
| **Tests:** Graphical user interface, Data manager |
| **Assumptions :** User is logged in and at the edit information screen |
| **Integration Testing** |
| **Steps:**   * User presses the update button * User information is retrieved from data manager * Data manager receives modified information   **Expected:**  The same profile page refreshes showing the changes the user entered  **Fails if:**   * User is notified that there was a problem while updating/editing his profile |

| Upgrade request |
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| **Tests:** Graphical user interface |
| **Assumptions :** User uploaded his portfolio/CV |
| **Integration Testing** |
| **Steps:**   * User presses the upgrade button   **Expected:**  A pop up message appears that the request has been sent successfully  **Fails if:**   * User is notified that there was a problem while submitting a request |

| Create tags |
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| **Tests:** Graphical user interface,Data manager |
| **Assumptions :** User is logged in and at correct screen |
| **Integration Testing** |
| **Steps:**   * User presses the button to create a new tag * Newly created tags are sent to the data manager   **Expected:**  Tag gets created and a pop message appears  **Fails if:**   * Tag doesn't get created |

| Search |
| --- |
| **Tests:** Graphical user interface,User interface,Data manager |
| **Assumptions :** Expert’s name / tags that is searched for exists |
| **Integration Testing** |
| **Steps:**   * User types an input in search bar * Input is passed to data manager * Data manager retrieves experts with the name typed in the search bar/ experts associated with tags typed * Retrieved data is displayed on the graphical user interface   **Expected:**  A list of experts is displayed  **Fails if:**   * No list appears * Search results aren't related to what was searched for |

| View profile |
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| **Tests:** Graphical user interface |
| **Assumptions :** User is at a screen where there is a list of experts |
| **Integration Testing** |
| **Steps:**   * User presses view profile when they choose an expert   **Expected:**  User is redirected to the expert’s profile where all information is displayed  **Fails if:**   * No information gets displayed * Wrong information displayed |

| Create an appointment with the user |
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| **Test Covers:** Graphical User Interface and Data Manager. |
| **Assumption:** User accepted a slot from the suggested ones. |
| **Integration Testing** |
| **Steps:**   * Press on the book button and provide the information of the session with the agreed on slot. * The Graphical User Interface passes this information to data manager to be saved in the session table.   **Expected:** The appointment should be created and saved.  **Fails if:**  **•** The session record was not saved. |

| Choose experts |
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| **Tests:** Graphical user interface |
| **Assumptions :** User is logged in and viewing a list of experts |
| **Integration Testing** |
| **Steps:**   * User chooses an expert   **Expected:**  Pop up message appears notifying the users that they chose an expert and a request has been sent  **Fails if:**   * Choosing an expert doesn't send a session request * Choosing more than 3 experts |

| Share an appointment with the public |
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| **Test Covers:** Graphical User Interface. |
| **Assumption:** User agrees on sharing the appointment. |
| **Integration Testing** |
| **Steps:**   * Press on a share button.   **Expected:**  A share request should be sent to the user to confirm sharing and the appointment could be viewed by other users.  **Fails if:**   * No one was able to see the appointment. |

| Receive Notifications |
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| **Test Covers:** Graphical User Interface. |
| **Assumption:** Expert received a notification. |
| **Integration Testing** |
| **Steps:**   * Press to view the notifications.   **Expected:** Notification can be viewed.  **Fails if:**   * No notification is available to be viewed. |

| Suggesting slots for the appointment |
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| **Test Covers:** Graphical User Interface. |
| **Assumption:** User confirms on the session’s slot. |
| **Integration Testing** |
| **Steps:**   * Expert suggests 3 slots. * Send email to the user with the slots.   **Expected:** A message appears that the email was sent successfully.  **Fails if:**   * The message says that email failed to be sent. |

| Receive a confirmation and the Url for the session |
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| **Test Covers:** Graphical User Interface. |
| **Assumption:** User confirms on the session’s slot. |
| **Integration Testing** |
| **Steps:**   * Open inbox.   **Expected:** A confirmation and the URL are received in the inbox.  **Fails if:**   * No confirmation is sent |

| URL opens chat room |
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| **Test Covers:** Graphical User Interface. |
| **Assumption:** URL is received. |
| **Integration Testing** |
| **Steps:**   * Open the confirmation email in the inbox. * Press on the URL hyperlink.   **Expected:** URL opens the chat room/video conference.  **Fails if:**   * The URL doesn’t redirect to the session’s platform. |