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| Test Ref | Req being tested | Test Content | Input | Output | Pass Criteria |
| SE-001 | FRD1 | Test to check if software is displaying the proper contents and loads properly- not a random screen. | User clicks on run pub engine. | Displays start screen. Gives the user the choice to create a town, create town and add pubs or delete town. User is also shown a list of towns created, and an option to edit them by clicking on “continue”. | User is shown the correct start screen, which gives the user an option to enter town name, create town, create town and add pubs, delete towns and edit already made town. |
| SE-002 | FRD1 | Test to check if clicking on the “continue” button takes user to the correct screen. | User clicks on Aberystwyth , an already made town then clicks “continue” button. | Displays the edit pub screen. User is greeted with a selection of pubs, of which they can edit or delete and add new pubs. | User can add a new pub, edit and delete pubs without any errors and is taken to the right screen. |
| SE-003 | FRD2 | Test to check if existing town can be added. | User enters “Aberystwyth” and clicks on create town button, which was previously added into the pub list (Aberystwyth). | Town is not created and displays  “Town already exists” message. | Pub is not successfully created. |
| SE-004 | FRD2 | Test to check if a non-existent inputted pub address and postcode is accepted by google maps. | User enters incorrect pub address and postcode, such as “aaaa”, and proceeds to click on the “save changes” and exit’s or “add next pub” button. | User is not allowed to continue adding the pub as Program displays  “Did not find address” message. | List isn’t successfully created. |
| SE-005 | FRD2 | Test to check if an existing inputted pub address and post code is accepted by google maps. | User enters the following existing address for “Harleys” pub: “Eastgate”, “SY23 2AR”. User then proceeds to click “OK”. | User is displayed the coordinates of “X” and “Y” for the following address and postcode. | User is shown proper “X” and “Y” coordinates. |
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| SE-006 | FRD2 | Test to check if program allows the user to enter multiple pubs. | User attempts to add the following pubs- “Pier Pressure”, “Academy” and “Mill inn”. | User is taken to edit pub page, and asked to fill in the name, description, address, choose characteristics, photos. The user after has a choice to “save changes and exit” or to add another “add next pub”. | All pubs are successfully created. |
| SE-007 | FRD2 | Test to check if user can edit chosen pub. | User clicks on “Aberystwyth” town and proceeds to choose the “Pier Pressure” pub and then clicks on “edit selected pub”. | Displays form  for user to fill description for “Pier Pressure” pub. | “Pier Pressure” pub that was successfully edited and added onto the pub list and is viewable from the pub list page. |
| SE-008 | FRD2 | Test to check every content in screen is displayed as intended. | User clicks  “Add a new pub” for the town “Aberystwyth” | User is taken into the edit pub page where a name, description, address, characteristics and photos of the pub are required. The page also includes the OK, saves changes and exit, add next pub and a back button. | Program displays the edit pubs page accurately and correctly without any missing buttons or features. |
| SE-009 | FRD2 | Test to check if “Back” button takes user back to menu. | User clicks on the “Back” button to exit the edit pub page for the “Aberystwyth” town. | User is taken back into the pub list menu. | User is taken into correct pub list  menu. |
| SE-010 | FRD2 | Test to check if “Add a new pub” button takes user to adding pub section. | User clicks “Add a new pub” button from the pub list page. | User is taken to the pub adding page where they need to enter the name, description, address, characteristics and photos for the “Pier Pressure” pub. | User is taken into correct page and given the options to save changes and exit, add the next pub, or go back to the pub list menu. |

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| SE-011 | FRD2 | Test to check if pub name already exists. | User enters “Pier pressure “ as a new Pub, which is already added into the pub list. | User is shown an error message saying “Pub is already created, and not allowed to “save changes”. | Pub with similar pub name isn’t successfully created. |
| SE-012 | FRD5 | Test to check if text box can be edited on. | User clicks on text box for name, description address. | User can edit the text box they choose. | User able to edit text box without any issues. |
| SE-013 | FRD5 | Test to check if character limit is fixed to 45. | User enters the name of a new pub, which exceeds the 45-character word limit and proceeds to click on “save changes and exit”. | Pub name is too long and user is shown the “Cannot be saved: characters too long” error message. | Chosen pub with the exceeded pub name isn’t successfully created and added to the pub list. |
| SE-014 | FRD5 | Test to check if “OK” button creates coordinates for the address used. | User selects the “Kanes” pub and proceeds to add “16 Corporation Street” and “SY23 2BT” as their address and clicks the “OK button. | User is shown the “X” and “Y” coordinates from the entered address; also presented with the url for google maps from the coordinates. | User is shown the correct coordinates and google maps url. |
| SE-015 | FRD5 | Test to check if “Save changes and exit” button works correctly as intended on edit pub page. | User clicks “Save changes and exit” button after creating “Pier pressure” pub. | User is taken back into the pub list page after clicking on button. | The pub, “Pier Pressure” is successfully created and saved into the pub list. |
| SE-016 | FRD5 | Character limit for description  should be limited and set to 495. | User enters description about pub whilst exceeding 495 words and clicks “Save changes and exit” button. | User is displayed an error message saying, “Cannot be saved: description too long”, after clicking the “Save changes and exit” button. | The pub isn’t successfully created. |
| SE-017 | FRD5 | Test to check if GPS location is correct . | User enters the address for the “Harleys” pub, which is “Eastgate” and “SY23 2AR”. | Coordinates for “Harleys” pub is shown as “X” and “Y”. A google maps URL is also outputted after clicking on the “OK” button. | Correct location coordinates and google maps URL  shown for “Harleys” pub |
| SE-018 | FRD5 | Test to check if photo URL adds the chosen image. | User copies a URL of an image and pastes it into the “photos” box, and proceeds to click “See image” button, then “Save changes exit” if they are happy with the chosen image. | User is shown a preview of the image URL that was entered when they click on “See image” button. | Image URL displays the correct image without any errors. |

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| SE-019 | FRD5 | Test to not allow invalid image URLs to be added as an image. | User proceeds to copy and paste an invalid image URL into the photos box, then click on “See image” button. | Displays error message saying “Invalid image link”. | User is not able to display the chosen URL. |
| SE-020 | FRD5 | Check if “Yes” option displays chosen  characteristic on page. | User selects “Yes” for “Club”, “Loud Music and “Has TV” characteristics for the “Pier Pressure” pub. | Selected characteristics  are displayed on page for the “Pier Pressure” pub. | Correct characteristic is displayed on page. |
| SE-021 | FRD5 | Check if “No” option  displays chosen  characteristic on page. | User selects “No” for “Serves Food, “Has Real Ale” and “Allows dogs” characteristics for the Pier Pressure pub. | Selected characteristics  are displayed on page for the “Pier Pressure” pub. | Characteristics are displayed on page. |
| SE-022 | FRD8 | Test to see if user can edit existing pubs. | User selects “View/Edit pubs”. | User is taken into a pub editing page. | User is taken into correct page- pub editing page. |
| SE-023 | FRD8 | Test to see if user  can view existing pub information. | “Pier Pressure” pub, then proceeds to click on “edit selected pub”. | User is taken into the “Pier Pressure” pub editing page and shown all the information. | User is taken into correct page and shown the correct information relating to the “Pier Pressure” pub. |
| SE-024 | FRD8 | Test to check if editing pub name is possible. | User clicks on “Name” text box. | User can edit the “Name” text box. | User allowed to edit “Name” text box. |
| SE-025 | FRD8 | Test to check if user can change description of their pub. | User clicks on “Description” text box. | User can edit the | User allowed to edit “Description” text box. |

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|  |  |  |  | “Description” text box. |  |
| SE-026 | FRD8 | Test to check if user can change  “GPS  Coordinates”. | User clicks on “Address” box and proceeds to change the address, then clicks on “OK” button. | User is shown the updated coordinates and google map URL. | User allowed to edit GPS coordinates. |
| SE-027 | FRD8 | Test to check if user can change “Characteristics” for their pub. | User selects a characteristic and chooses yes or no. | Edited characteristic is displayed on the filter page. | User allowed to change characteristic. |
| SE-028 | FRD8 | Test to check if user can edit  existing image URL. | User clicks on  “photos” box and proceeds to change URL, then clicks on “See image” button. | Updated image is displayed to the user. | User can edit already existing image URL. |
| SE-029 | FRD8 | Test to check if clicking on “Yes” or “No” on a selected  characteristic correctly filters it. | User either clicks on “Yes” or “No” after selecting a characteristic. | Characteristic is added to a filter list or not,  depending on the user’s choice. | Correct chosen characteristic is added into the list, and the proper chosen characteristic that was selected as “No” is not added into the filter list. |
| SE-030 | FRD8 | Test to check if user has selected  a filter to either be set to “Yes” or “No”. | User doesn’t click “Yes” or “No” button,  but still  proceeds to click the “Save changes” button. | User is shown an error message saying, “Fill all filters”. | Error message is displayed for the user. |
| SE-031 | FRD8 | Test to check if more than one filter can be  added into the filter list. | User chooses a second filter to either be “Yes” or “No”. | New  characteristic  is added into the filter list. | Correct chosen characteristic is successfully added into the filter. |
| SE-032 | FRD8 | Test to check if different  combinations of filters can be  added into the  list. | User selects 4 characteristics and adds it into the filter list. | Chosen filters are displayed  for the user to see. | Correct chosen  filters are added into the list properly and displayed for the user to see. |

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|  |  |  |  | characteristic is already added. |  |
| SE-033 | FRD6 | Test to check if edited pub list is saved. | User selects “Pier Pressure” to edit on and proceeds to click on “Save changes and exit” button. | User taken off edit screen  and back into viewing pub lists, which also includes “Pier Pressure” pub. | Pub lists are successfully saved. |
| SE-034 | FRD6 | Test to check if user is given option to cancel current edited pub list by clicking on “Back” button. | User clicks on “Back” button when editing pub list. | User is taken out of edit screen and into the pub list page. | Pub list changes are successfully discarded. |
| SE-035 | FRD6 | Test to check if “Back” and “save  changes” buttons work when clicked. | User chooses  to click either option. | “Back” button takes user  back to menu  and “save changes”  button saves changes and takes user back to menu. | Buttons successfully function properly. |
| SE-036 | FRD4 | Test to check if chosen pub  deleted off the list of pubs. | User chooses a pub to delete, then clicks on “Delete selected pub” button. | Pub is deleted off the pub list. | Correct pub is successfully deleted off list. |
| SE-037 | FRD4 | If list is empty,  deleting pubs  shouldn’t be an option. | User proceeds to click on “Delete selected pub”. | Program displays an error message “Please select a pub to delete”. | Program doesn’t allow user to delete anything as no pubs exist and warns them with a error message. |
| SE-038 | FRD4 | Test to check if Pub list menu  shows right pubs for their town. | User clicks on “Aberystwyth”, then “Continue”. | User is shown a list of pubs  for the town ”Aberystwyth”. | User greeted with correct pubs for Aberystwyth. |
| SE-039 | FRD3 | Test to check if past lists load. | User chooses to load existing pub list by selecting “Aberystwyth” town. | Shows  previous  existing pub  list for the town “Aberystwyth”. | Displays the correct chosen existing pub list. |
| SE-040 | FRD3 | Test to check is already created pub list is displayed. | User selects “Aberystwyth” and then the “Continue” button. User then proceeds to check if “Pier Pressure” pub is displayed. | User is displayed with previous past list content for the town “Aberystwyth”, including the “Pier Pressure” pub. | User should be shown the  correct past list content that they chose. |
| SE-041 | FRD3 | Test to see if option to select load past pub list. | User starts application, selects “Aberystwyth”. | User is displayed with the pub lists for the chosen “Aberystwyth” town. | User is taken into the correct page when application starts and allowed to load last pub list. |
| SE-042 | FRD7 | Test if the saved data will load on the mobile app. | Load application on phone. | User is presented with the mobile app version of the user interface. | Data should have loaded correctly. |
| SE-043 | FRD7 | Test to see if mobile app’s  display is correct after saving data on desktop. | Load application on phone. | User is presented with mobile version of app from desktop. | Data should have saved correctly on desktop, allowing the correct display on mobile app. |
| SE-044 | FRD7 | Test to see if loaded  information is correct. | Load application on phone. | User is presented with collection of  pubs for their chosen town. | User is shown the correct pubs for the chosen town along with the correct description and information. |