Test Specification Group Project

Android Development

Authors:

Jack - UI Testing (Incomplete)

Elliot - Recordings (Incomplete)

Alan - Functionality (Incomplete)

Qiaoyang - Database (Imcomplete)

**Recordings and Species Module testing - Elliot**

| Test Ref | Req being tested | Test content | Input | Output | Pass criteria |
| --- | --- | --- | --- | --- | --- |
|  | FR2 | Test a valid phone number for a recorder. | 01234564854 | Phone number is accepted when sent to the database. | No errors or warnings are produced. |
|  | FR2 | Test a phone number that contains characters. | 01a23d65845 | Phone number is rejected when the user attempts to submit the data. | An error is displayed to the user alerting them that the phone number is invalid due to characters. |
|  | FR2 | Test a phone number that contains special characters. | 215!254@\*90 | Phone number is rejected when the user attempts to submit the data. | An error is displayed to the user alerting them that the phone number is invalid due to special characters. |
|  | FR2 | Test a valid date. | 06/11/2014 | The date is accepted and sent to the database. | No warnings or errors are produced. |
|  | FR2 | Test a historic date. | 06/11/1900 | The date is rejected when the user attempts to submit the data. | An error is displayed to the user alerting them that the date is too far in the past. |
|  | FR2 | Test a date in the future. | A date further in the future of the current date | The date is rejected when the user attempts to submit the data. | An error is displayed to the user alerting them that the date cannot be in the future. |
|  | FR3 | Test a valid species from the list. | Search for a valid species that exists within the database. | The species is accepted when the user submits the data. | No warnings or errors are produced. |
|  | FR3 | Search for a species that does not exist. | Search for ‘$FS465bth’ | No results will be returned. | A message will alert the user that no matching results were obtained. A prompt to add a new species will appear. |
|  | FR3 | Test a valid unique species can be added. | Attempt to add a new valid species. | The new species will be added to the database when submitted. | No warning or error message will be displayed to the user as the data is valid. |
|  | FR3 | Test that a repeat of a species cannot be entered. | Attempt to add a new valid species that already exists in the database. | The new species will not be added to the database. | An error will be displayed to the user alerting them to the fact a duplicate of this species already exists. |
|  | FR4 | Test a valid abundance character. | ‘A’ | The character is accepted as valid on submission and sent to the database. | No error message or warning is produced for the valid character. |
|  | FR4 | Test an invalid abundance character. | ‘Z’ | The character will be rejected when the user attempts to submit data. | An error is displayed to the user alerting them that the abundance character is invalid. |
|  | FR4 | Test multiple characters in the abundance field. | ‘FA’ | The character will be rejected when the user attempts to submit the data. | An error is displayed to the user alerting them that only one character can be entered into the abundance field. |
|  | FR4 | Test no entry in the free text comment area. | Enter no data to the free text area. | On submission the data will be sent to the database. | No warning or error messages will be displayed for the valid entry. |
|  | FR4 | Test a valid entry in the free text comment area. | Enter more than 0 and less than 256 characters. | On submission the data will be sent to the database. | No warning or error message will be displayed for the valid entry. |
|  | FR4 | Test a comment that is more than the maximum number of valid characters in the free text comment field. | Enter more than 256 characters in the free text comment field. | The data will be rejected when the user attempts to submit the data. | An error message will alert the user to the fact that the free comment box is only able to take a comment of 256 characters or less. |
|  | FR4 | Testing the camera is loaded when the scene camera icon is pressed. | Press the scene camera icon. | The screen is switched to camera output. | The user can take a picture with the camera which is then saved. |
|  | FR4 | Testing the camera is loaded when the plant camera icon is pressed. | Press the plant camera icon. | The screen is switched to camera output. | The user can take a picture with the camera which is then saved. |
|  | FR5 | Testing a recording can be deleted. | Select a recording and press delete. | The recording will no longer be displayed in the list. | The database will no longer contain the recording that was deleted. |
|  | FR5 | Test a whole species can be deleted. | Select a pre-existing species and press delete. | The recording will no longer be displayed in the list. | The database will no longer contain the recording that was deleted. |
|  | FR5 | Change the abundance of a species. | Select a pre-existing species and change the abundance to a valid abundance. | The species will now be updated with the new abundance. | The database will be updated to match the new information given on submission. |
|  | FR5 | Change the abundance of a species to a non-valid abundance. | Select a pre-existing species and change the abundance to a non-valid abundance. | When the user submits the change the change is rejected. | An error message is produced alerting the user that the input for abundance is not valid. |
|  | FR5 | Change the typical location for a species. | Select a pre-existing species and change the pre-existing location to a new valid location. | The species record will be updated with the new value for typical location. | No errors or warning messages are produced as the data is valid. |
|  | FR5 | Change the image of a species (plant). | Select a pre-existing species and change the plant image to a valid image. | The species plant image will be updated with the new image. | The database will be updated to match the new information given on submission. |
|  | FR5 | Change the image of a species (scene). | Select a pre-existing species and change the scene input to a valid image. | The species scene image will be updated with the new image. | The database will be updated to match the new information given on submission. |

## Functionality - Alan

| Test Ref | Req being tested | Test content | Input | Output | Pass criteria |
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# UI - Jack

| Test Ref | Req being tested | Test content | Input | Output | Pass criteria |
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Database - Qiaoyang