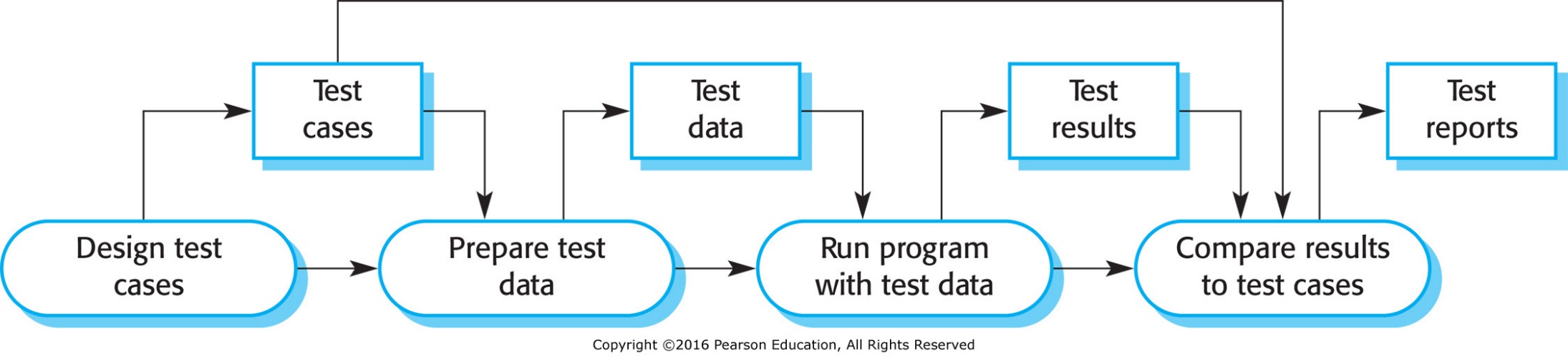
Testing Document

FactBK

**Validation Testing**

* Show that a program does what it is intended to do – does the software meet the requirements?
* At least one test for every requirement (Copied from lecture note)

Testing Model



System Requirements Testing

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Requirement** | **Test case** | **Expected Result** | **Actual Results** | ✗✓ | **Action Taken** |
| Test 1.1  **JavaScript** |  | If Javascript is not enabled in the user’s browser, the system will display a page asking them to turn it on, and prompt them to do so with a button. |  |  |  |
| Test 2.1  **Map Display** | The user logs in from the homepage using the given email and password.  Variables:  String Username: [up840212@myport.ac.uk](mailto:up840212@myport.ac.uk)  String Password: Nasser123 | The map page should load using the google maps api. A map with the whole of portsmouth should be displayed. All locations and points of interest should be accessible and visible. |  |  |  |
| Test 3.1  **Map Centre** | The user logs in from the homepage using the given email and password.  Variables:  String Username: [up840212@myport.ac.uk](mailto:up840212@myport.ac.uk)  String Password: Nasser123 | After the user logs in, the system should take to to the home page with the portsmouth map. The map should be centered on the user’s location by default and the user should also be able to change the centre of the map by dragging the map in the opposite direction. |  |  |  |
| **Populating the Map with Markers** | Variables: | Upon launch, the system should query the database for every fact location. The system will then place a marker at each longitude and latitude coordinate returned by the query. The markers will be a constant size regardless of the scale of the map. |  |  |  |
| **Adjusting the scale of the map** |  |  |  |  |  |
| **Location Tracking** | Variables:  Geolocation:  Whatever it is | Users will be asked to share their current location via a popup when they first launch the system. The user's current location will be displayed on the map in the form of a blue dot. This blue dot will remain the same size regardless of the map scale. |  |  |  |
| **Opening**  **a fact** | After the user logs in with the username: [up840212@myport.ac.uk](mailto:up840212@myport.ac.uk) and password Nasser123, a map will be displayed as the homepage with markers that represent facts.  Variables:  Coordinates | The system should allow the user to open a fact by clicking/tapping a marker on the map.The system will then query the database for the fact using the marker’s longitudinal and latitudinal coordinates. The system will then display the fact in a card at the top of the screen. |  |  |  |
| **Viewed Facts** |  | After closing a fact, the marker corresponding to the fact they have just viewed should change colour from red to purple. The system will keep track of which facts have been viewed using cookies, these cookies will be stored for 4 weeks in the user’s cache before they are deleted. |  |  |  |
| **Closing**  **a fact** |  | The system should allow the user to close an open fact by clicking/tapping an “X” in the top right corner of that fact text box. |  |  |  |
| **Directions** |  | The system should show the route to their chosen location using their chosen method of transport. The route will be shown by a blue line that highlights the roads/paths they have to take to reach their destination. |  |  |  |
| **Sharing**  **a fact** |  | The system should allow the user to email an open fact to another person from within the system by clicking on a “Share this Fact” hyperlink located within the fact text box. Clicking this hyperlink will open an email message including the fact. The user will have to type in their intended recipient and click a “send” button in the bottom left of the message window to send the email. |  |  |  |
| **Troubleshooting** |  | The system will display a troubleshooting information in the form of a FAQ. This will be accessible through a “Frequently asked Questions page” located within the system menu. |  |  |  |
| **Tutorial** |  | The system will display a tour of the system’s features through text bubbles that appear on the screen that explains the feature/aspect it is pointing to. |  |  |  |
| **Offline Use** |  | The system will check if the user has an active internet connection every 30 seconds. If the user loses their internet connection while using the system, a popup will appear at the top of the screen explaining that the user will no longer be able to open any facts and that other features may not work. |  |  |  |

Database Test Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Query | Expected Result | Actual Result | Pass/Fail? | Action Taken |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

User Requirements Test Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Requirement | Expected Result | Actual Result | Pass/Fail? | Action Taken |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |