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**S2031121**

**Mobile Platform Development Coursework**

**Submission 1: Document**

**1. Link to the video**

**https://github.com/ShadeyyWasTaken/MPD\_Coursework/blob/main/Karastoyanov\_Martin\_S2031121\_Video.mp4**

**2. Link to the Android project**

**https://github.com/ShadeyyWasTaken/MPD\_Coursework**

**3. Link to the project APK file**

**https://github.com/ShadeyyWasTaken/MPD\_Coursework/blob/main/app-debug.apk**

**4. Test Strategy**

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| --- | --- | --- | --- | --- |
| **ID** | **DESCRIPTION** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** |
| P1 | Input: “Origin date/time: Sat, 15 Apr 2023 05:01:48 ; Location: ENGLISH CHANNEL ; Lat/long: 48.791,-2.339 ; Depth: 5 km ; Magnitude: 2.4” | Extracted depth value is "5" | Extracted depth value is "5" | PASS |
| P2 | Input: “Origin date/time: Sat, 15 Apr 2023 05:01:48 ; Location: ENGLISH CHANNEL ; Lat/long: 48.791,-2.339 ; Depth: 5 km ; Magnitude: 2.4” | Extracted Magnitude value is "2.4" | Magnitude value is "2.4" | PASS |
| P3 | Input: “Origin date/time: Sat, 15 Apr 2023 05:01:48 ; Location: ENGLISH CHANNEL ; Lat/long: 48.791,-2.339 ; Depth: 5 km ; Magnitude: 2.4” | Extracted Latitude value is "48.791" | Extracted Latitude value is "48.791" | PASS |
| P4 | Input: “Origin date/time: Sat, 15 Apr 2023 05:01:48 ; Location: ENGLISH CHANNEL ; Lat/long: 48.791,-2.339 ; Depth: 5 km ; Magnitude: 2.4” | Extracted Longitude value is "-2.339" | Extracted Longitude value is "-2.339" | PASS |
| P5 | Input: “Origin date/time: Sat, 15 Apr 2023 05:01:48 ; Location: ENGLISH CHANNEL ; Lat/long: 48.791,-2.339 ; Depth: 5 km ; Magnitude: 2.4” | Extracted Location value is "English Channel" | Extracted Location value is "English Channel" | PASS |
| P6 | Input: “Origin date/time: Sat, 15 Apr 2023 05:01:48 ; Location: ENGLISH CHANNEL ; Lat/long: 48.791,-2.339 ; Depth: 5 km ; Magnitude: 2.4” | Extracted Date value is "15 Apr 2023 05:01:48 " | Extracted Date value is "15 Apr 2023 05:01:48 " | PASS |
| P7 | Input: “Origin date/time: Sat, 15 Apr 2023 05:01:48 ; Location: ENGLISH CHANNEL ; Lat/long: 48.791,-2.339 ; Depth: 5 km ; Magnitude: 2.4” | Parsed Date value is formatted to "15/04/2023" | Parsed Date value is formatted to "15/04/2023" | PASS |
| P8 | Input: “Origin date/time: Sat, 15 Aprerr 2023 05:01:48 ; Location: ENGLISH CHANNEL ; Lat/long: 48.791,-2.339 ; Depth: 5 km ; Magnitude: 2.4” | The app should throw a parse error as the date "15 Aprerr" is invalid | The app throws a parse error | PASS |
| N1 | Navigate to the app's home screen and select the "Press To Get Data" option with the date field being empty. | The app should display a list of earthquakes with relevant information such as magnitude, location, and date/time. | The app displays a list of earthquakes with relevant information such as magnitude, location, and date/time. | PASS |
| N2 | Navigate to the app's home screen and select the "Press To Get Data" option with the date field having a date and existing earthquakes on that date | The app should display a list of earthquakes with relevant information such as magnitude, location, and date/time on that date. | The app displays a list of earthquakes with relevant information such as magnitude, location, and date/time on that date. | PASS |
| N3 | Navigate to the app's home screen and select the "Press To Get Data" option with the date field having a date and no earthquakes on that date | The app should not display any earthquakes | The app does not display any earthquakes | PASS |
| N4 | When listing an existing earthquake by day, the background colour of the earthquakes should change depending on the strength (the magnitude) of the earthquake | The background colour of earthquake with magnitude below 1 should be blue | The background colour of earthquake with magnitude below 1 is blue | PASS |
| N5 | When listing all the earthquakes, the background colour should be removed and back to normal | The background colour of the listed earthquake should be normal | The background colour of the listed earthquake is normal | PASS |
| N6 | Click on a listed earthquake | The application should open a detailed view with google maps and additional information about the application | The application opens a detailed view with google maps and additional information about the application | PASS |
| N7 | Click zoom in/ zoom out on the google maps | The map should zoom in/ zoom out and update the interface | The map zooms in/ zooms out and update the interface | PASS |
| N8 | Click Go Back on the detailed earthquake view | The application should go back to the home page | The application goes back to the home page | PASS |
| N9 | Navigate to the app's home screen and select the "Search Earthquake" option | The application should show a new view with different options than the home view | The application shows new view with different options than the home view | PASS |
| N10 | The user tries to press the button to search for an earthquake without inputting any date or location | The application should show a toast message saying "City or Date not found" | The application shows a toast message saying "City or Date not found" | PASS |
| N11 | The user tries to press the button to search for an earthquake without inputting any location | The application should show a toast message saying "City not found" | The application shows a toast message saying "City or Date not found" | FAIL |
| N12 | The user tries to press the button to search for an earthquake without inputting any date | The application should show a toast message saying "Date not found" | The application shows a toast message saying "City or Date not found" | FAIL |
| N13 | The user presses the button to search for an earthquake with invalid information (non-existing earthquake) | The application should show a toast message saying "City or Date not found" | The application shows a toast message saying "City or Date not found" | PASS |
| N14 | The user presses the button to search for an earthquake with valid information (existing earthquake) | The application should open a detailed view of the earthquake | The application opens a detailed view of the earthquake | PASS |
| N15 | The user presses the go back button | The application should go back to the previous view | The application goes back to the home view | FAIL |
| N16 | The user presses the shallowest earthquake button | The application should open a detailed view of the shallowest earthquake | The application opens a detailed view of the shallowest earthquake | PASS |
| N17 | The user presses the deepest earthquake button | The application should open a detailed view of the deepest earthquake | The application opens a detailed view of the deepest earthquake | PASS |
| N18 | The user presses the largest earthquake (by magnitude) button | The application should open a detailed view of the largest earthquake | The application opens a detailed view of the largest earthquake | PASS |
| N19 | The user presses the nearest extreme earthquakes | The application should open a list of the nearest Northerly/Southerly/Westerly/Easterly  earthquakes | The application opens a list of the nearest Northerly/Southerly/Westerly/Easterly  earthquakes | PASS |
| N20 | The user clicks on one of the nearest Northerly/Southerly/Westerly/Easterly  earthquakes | The application should open a detailed view of the nearest Northerly/Southerly/Westerly/Easterly earthquake | The application opens a detailed view of the nearest Northerly/Southerly/Westerly/Easterly earthquake | PASS |
| N21 | The user presses the go back button | The application should open the previous view | The application goes back to the home view | FAIL |
| L1 | The user rotates their phone | The application should support and automatically changes the view to the correct layout | The application automatically changes the view to the correct layout | PASS |
| L2 | The user rotates their phone | The layouts should appropriately make usage of the new space and correctly display all the information | The layouts appropriately make usage of the new space and correctly display all the information | PASS |
| I1 | The application cannot connect to the internet | The application should not load any earthquake information | The application does not load any earthquake information | PASS |
| I2 | The application cannot connect to the internet and the user presses the button the get data | A toast message should pop up saying "Failed to parse earthquake data" | A toast message pops up saying "Failed to parse earthquake data" | PASS |