**Testing**

**Testing stage – First deployment**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test ID** | **Test Type** | **Test Date** | **Expected Outcome** | **Actual Outcome** | **Test Status** | **Evidence** | **Fix implementation** | **Fix Status** |
| WB3.0 | White box | 22/04/22 | Live URL loads and renders application as expected in desktop browser (renders same as locally served application) | URL loads, but renders blank screen | Fail | Screenshot | Added "homepage" attribute to json script in package.js – Common directory issue within web hosting  (Link to help source) | True |
| WB3.1 | White box | 22/04/22 | Live URL loads and renders application as expected in desktop browser (renders same as locally served application) | Live URL loads and renders application in desktop browser, but root does not redirect to any component - should direct to signin or home component | Pass (Needs modification) | Video | Carried over to Test WB3.16 | False |
| WB3.2 | White box | 22/04/22 | Live URL loads and renders application as expected in mobile device browser | Live URL loads and renders application in mobile device browser, but with same landing screen problem as in test BB3.1 | Pass (Needs modification) | Screenshots | Carried over to Test WB3.16 | False |
| WB3.3 | White box | 22/04/22 | Test responsiveness of live URL app using browser dev tools | App layout and styling responds to media queries at specified breakpoints | Pass | Video | N/A | True |
| WB3.4 | White box | 22/04/22 | PWA functionality successful - app successfully installs to device like native app with launcher icon | Service worker installs but doesn't run due to errors | Fail | Screenshots | Carried over to Test WB3.5 | False |
| WB3.5 | White box | 22/04/22 | PWA functionality successful - app successfully installs to device like native app with launcher icon | Browser prompts install option, app successfully installs locally to desktop and mobile devices and launched via launcher icon | Pass | Video and Screenshots – desktop and mobile | Corrected file paths allocated to local cache in service worker script which weren't reconciling.  Corrected file paths in manifest script which weren't reconciling. | True |
| WB3.6 | White box | 22/04/22 | Each component screen loads on associated URL request | Each component URL loads when requested | Pass | Video | N/A | True |
| WB3.7 | White box | 22/04/22 | All image assets successfully load and render across components | SVG assets render successfully.  Icon assets render successfully.  Images from root folder render successfully.  Images from media folder do not render successfully, besides the logo. | Fail | Screenshots | Attempt to debug why only the logo media asset loads despite being in the same path as the other assets and all paths being correct.  Alternative fix - store media in Firebase storage and fetch from URL.  Carried over to Test WB3.17 | False |
| WB3.8 | White box | 22/04/22 | Instant messaging functionality working - uploads new messages to Firebase chat collection and renders new message in messages panel | Instant messaging functionality working - uploads new messages to Firebase chat collection and renders new message in messages panel | Pass | Video and screenshots | N/A | True |
| WB3.9 | White box | 22/04/22 | Upload file chat messaging works -uploads new files to Firebase storage and renders the image in messages panel | Upload file functionality works, but only when sent with a text message, not standalone. The same image is appended to each text message thereafter unless chat is reloaded | Pass (Needs modification) | Video | Debug relevant message component function.  Carried over to Test WB3.20 | False |
| WB3.10 | White box | 22/04/22 | Upload new avatar image function working - uploads file to Firebase storage and renders new image as user profile image in profile screen and users screen | Upload new avatar image function working - uploads file to Firebase storage and renders new image as user profile image in profile screen and users screen | Pass | Video and Screenshot | N/A | True |
| WB3.11 | White box | 23/04/22 | Delete avatar functionality working - image deleted from Firebase storage and from user profile within app - reverts to default profile image | Delete avatar functionality working - image deleted from Firebase storage and from user profile within app - reverts to default profile image | Pass | Video | N/A | True |
| WB3.12 | White box | 24/04/22 | Sign in functionality working as expected | Sign in functionality working as expected | Pass | Video | N/A | True |
| WB3.13 | White box | 24/04/22 | Sign out functionality working as expected | Sign out functionality working as expected | Pass | Video | N/A | True |
| WB3.14 | White box | 24/04/22 | All buttons function as expected | All buttons function as expected | Pass | Video | N/A | True |
| WB3.15 | White box | 24/04/22 | Sign up new user functionality working as expected – adds new user to Firebase Authentication and Firestore database user collection | Sign up new user functionality working as expected – adds new user to Firebase Authentication and Firestore database user collection | Pass | Video and Screenshot | N/A | True |
| WB3.16 | White box | 24/04/22 | Live URL loads and renders application as expected in desktop browser (renders same as locally served application) | Live URL loads and renders application as expected in desktop browser (renders same as locally served application) | Pass | Video | Uploaded application to new hosting and domain name (personal hosting, as opposed to brighton domains) | True |
| WB3.17 | White box | 24/04/22 | All image assets successfully load and render across components | All image assets successfully load and render across components | Pass | Screenshots | Uploaded application to new hosting and domain name (personal hosting, as opposed to brighton domains) | True |
| WB3.18 | White box | 24/04/22 | Loading icon positioned to center |  | Fail |  | Apply inline CSS to loading component | False |
| WB3.19 | White box | 24/04/22 | Message input needs to expand to message size |  | Fail |  | Fix: Utilise textarea element in place of input element with type attribute of text to allow message input field expansion | False |
| WB3.20 | White box | 24/04/22 | Upload file chat messaging works -uploads new files to Firebase storage and renders the image in messages panel |  | Pass |  |  | Pass |
| WB3.21 | White box | 24/04/22 | User remains logged in on browser reload and between sessions | User remains logged in on browser reload and between sessions | Pass | Video | N/A | True |
| WB3.22 | White box | 24/04/22 | Tested new hosting "javascripting.co.uk" works as intended | PWA functionality unsuccessful | Fail | Screenshots | Added SSL as service worker does not run over HTTP insecure connections | True |
| BB1.0 | Black Box | 24/04/22 | Mobile-friendly test returns no errors – (Search.google.com. 2022) | Page is mobile friendly and responsive | Pass | Screenshot | N/A | True |
| BB1.1 | Black Box | 24/04/22 | Accessibility test returns no errors – (Wave.webaim.org. 2022) | No errors.  However, 3 alerts flagged - two irrelevant, one "suspicious alternative text" | Pass | Screenshot | "Logo" alt text could be changed to "UniChat Logo" | False |
| BB1.2 | Black Box | 24/04/22 | Markup validation test returns no errors - (Validator.w3.org. 2022) | No errors returned | Pass | Screenshot | N/A | True |
| BB1.3 | Black Box | 24/04/22 | Accessibility test returns no errors - (Tenon.io. 2022) | 2 issues flagged – No label element attached to form email and password input elements | Fail | Screenshot | Add corresponding label elements to the email and password input elements in sign in and sign up components | False |
| BB1.4 | Black Box | 24/04/22 | Mobile device speed test returns no errors - (Thinkwithgoogle.com. 2022) | Page loading speed results 1.4 seconds on 4g network connection – flags "needs improvement" | Fail | Screenshot | Serve static assets with an efficient cache policy.  Reduce JS execution time.  Enable txt compression  Eliminate render-blocking resources | False |
| BB1.5 | Black Box | 24/04/22 | Page quality test returns no errors - (web.dev. 2022) | Performance score 65/100.  Accessibility, best practices and SEO scores good. | Fail | Screenshots | Lack JavaScript optimisation is the primary issue, as with results from Test BB1.4.  Utilise an NPM build bundler to minify scripts. | False |
| UT3.0 | User Testing | 24/04/22 | User testing feedback returns no bugs | Sign in/up navbar links stacked vertical | Fail | Screenshot | Add media query to set navbar text elements to display: none at <344px device width | False |

Images not loading in production build:

<https://github.com/facebook/create-react-app/issues/8552>

Homepage "." help:

https://github.com/facebook/create-react-app/pull/1489

User testing - UI, functionality. Usability - effectiveness,

Test light/dark mode