## Software Review Report

Gholamreza Aminy and Sean Boaden were the sole members after Sprint One. Tasks were divided equally between the two remaining members.

### Requirements Checklist

**Reports**

|  |  |
| --- | --- |
| Project Management Plan, Software Testing Plan, Source Control documentation. Updated for each Sprint | ✓ |
| (S1) Analysis Report | ✓ |
| (S1) Multi-Platform Report | ✓ |
| (S1) Test Documentation for multi-platform accessibility | ✓ |
| (S2) Software Review Plan | ✓ |
| (S2) Performance Report | Completed during Handover |
| (S3) Optimisation Report | ✓ |

**Software**

|  |  |
| --- | --- |
| Movie Database Application – searching and filtering movies is quick and easy | ✓ |
| (S1) The application demonstrates either Adaptive or Responsive web design techniques | ✓ |
| (S2) **Membership Portal and Administrator Functions**  New members can sign up and choose a mailing option  Admins can view and edit all members | ✓ |
| (S3) **Passwords** are required for Admin and ACME accounts | ✓ |
| (S3) All users are assigned a Group. When a member joins, they are placed in the default group User | ✓ |
| (S3) **If the user is signed in, they are able to rate a movie 1 - 5 stars**  User ratings are saved in a DB table  Average Rating is calculated when a user rates a movie | ✓ |
| (S3) **When a movie is searched, analytics page is automatically updated**  The LastUpdate field in top\_searches table is used to find the most recently searched movies (historical data) | ✓ |
| (Handover) **Web Application incorporates Web Content Accessibility Guidelines**  Text is readable when zooming in to 200%  All non-text elements have alternative-text attributes  Colours are suitable for colour blind | ✓ |
| (Handover) Application functions correctly on a chosen platform | ✓ |
| (Handover) **Administrators can access DB**  -Viewing all members  -Editing mailing options | ✓ |

### Code Testing Process

When testing the code, it is important to know what features you need to test, and the methodology you need to use. The code testing process is set out in the Software Testing Plan. It defines the types of tests to perform for each sprint, and the issues to prioritise when coding and bugfixing.

For example, Sprint 1 saw a focus on User Interface / UX testing as this sprint was where the responsive design was implemented. Sprint 2 was focused on Functionality tests and System testing as the membership and PHP Sessions were implemented.

After each team member had familiarised themselves with the Test plan for the current sprint, they are required to take screenshots of the tests they performed, and provide an explanation of the test/output. These were compiled into the Test Documentation sections in the Master Document.

### Quality Assurance

Before coding, everybody knew the functional and non-functional requirements of the sprint. This way, members knew what features to develop and test before adding anything else. Team members finished reports prior to moving onto web development.

To ensure that all members knew what to do, we held meetings where the Scrum Master would assign tasks and give a run-down of the sprint. Discussions were encouraged. It is important to take notes of meetings for documentation purposes.

After development, the team was expected to perform testing according to the Test Plan, so that in the next sprint there would be little or no errors.

### Quality Control Processes

Testing was performed – including User Interface, System, Integration, Acceptance Testing.

Reviews were performed

* Code reviews, where the developer reads their code line-by-line
  + GitHub alows for changes to be reviewed by anyone. Pull-requests and commit history will highlight deleted lines of code as red, while new lines will be highlighted green.
* Requirements reviews
* Test Plan Reviews – as required, the Software Test Plan was altered each sprint to suit the needs of the tasks at hand.

### Room for Future Modifications

Each team member recognised that they must provide sufficient commenting for the future developers who may work on this application.

It is highly recommended that the source control is kept by ACME as it contains useful reports and documentation for any future developers.

References

[Software Quality Control](http://softwaretestingfundamentals.com/software-quality-control/#:~:text=Software%20Testing%20Jokes-,Software%20Quality%20Control,the%20products%20meet%20specifications%2Frequirements.)