

# ELEC5618 Software quality engineering

## Individual contribution-Week2

Name: Yuqi Dong

Unikey:Ydon0757

SID: 530796408

## Doc1 meeting policy

### 1. Roles & Responsibilities during meetings (leader, facilitator, secretary, participants, etc.)

Name	Roles	Responsibilities
Yuexian	Testing member	<ul style="list-style-type: none"><li>- Design functional test cases</li><li>- Execute functional testing</li><li>- Generate ideas, edit, and integrate information.</li><li>- Compile the document.</li></ul>
Xiyan Yu		
Yumeng Han	Recorder	<ul style="list-style-type: none"><li>- Record the meeting contents</li><li>- Edit and compile the document (List the framework of the document)</li><li>- Organize and analysis the result</li></ul>
YankunTang	User Experience Evaluator	<ul style="list-style-type: none"><li>- Evaluate the User Interface</li><li>- Identify User Experience issues</li><li>- Contribute ideas and support discussions.</li></ul>
Yuqi Dong	coordinator	<ul style="list-style-type: none"><li>- Overall project management</li><li>- Coordination (Organize meeting/ Monitor project procedure)</li><li>- Identify the problems and solve unexpected issues</li></ul>

## Doc 2 Project Description

**4. Upgrade Process:**(Each team selects an open-source project and identifies a software quality feature to improve. The team then collaborates to implement the upgrade, with each member playing a specific role. Describe the collaboration process, role assignments, and how the feature was built from scratch.)

### 4.1 Features to improve

1. Usability testing
2. Performance testing
3. Functional testing

### 4.2 Team collaboration process

1. Identify the key function of XMind and prepare for testing: Install the Xmind and conduct user interview.
2. Design and project planning: Design the test cases, identify the features to improve. Plan the timeline and milestone for the overall project.
3. Implementation: Execute the testing and user experience evaluation steps designed. Record the performance and the workflow.
4. Quality assurance: Fix the issues occurred during the implementation step, and design new testing features (if needed).
5. Results summary and compile documents: Aggregate all the testing results we get. And compiling them into a comprehensive report that highlights the critical quality issues. Lastly, we may provide some recommendations for future improvement of *XMind*.

**5. Proposed Improvements:**(Each team member must propose at least three aspects of the product that need improvement. The aspects proposed by each team member cannot be repeated.)

1. Complex user interface: There maybe difficult for new user to use functions to organize their mind map
2. Limited performance on the mobile devices: Not all the functionals are able to achieve on the mobile devices compared to desktop version
3. Limited templates: Too few preset templates

## Doc 3 Initial Quality Assurance Mechanisms

### 1. Walkthrough Procedures:

There are 5 members in our group divided into 4 roles: Testing member(Yue Xian, Xiyan Yu), User experience evaluator (Yankun Tang), Recorder (Yumeng Han), Coordinator (Yuqi Dong)

Step No.	Activity	Description	Participants	Project Period	Estimated Result
1	Starting Meeting	<ul style="list-style-type: none"><li>- Determine the evaluation software</li><li>- Allocate the roles and responsibilities to every member.</li></ul>	All members	W2	<ul style="list-style-type: none"><li>-Project Plan Document</li><li>-Roles and responsibilities</li><li>-Walkthrough Procedures</li></ul>
2	Functionality Inventory of <i>XMind</i>	<ul style="list-style-type: none"><li>- List the detailed function of <i>XMind</i></li><li>- Classify and prioritize the function</li></ul>	<ul style="list-style-type: none"><li>-Coordinator</li><li>-Testing members</li></ul>	W2	<ul style="list-style-type: none"><li>-The detailed ,prioritized function list of <i>XMind</i></li></ul>
3	Functional Evaluation 1	<ul style="list-style-type: none"><li>- Prepare for testing (<i>XMind</i> installation, environment establishment)</li><li>- Design test case</li></ul>	<ul style="list-style-type: none"><li>-Testing members</li><li>-User experience evaluator</li><li>-Recorder</li></ul>	W3	<ul style="list-style-type: none"><li>-Detailed test scenario document</li><li>-Test case list</li></ul>
4	Functional Evaluation 2	<ul style="list-style-type: none"><li>- Test <i>XMind</i> by the test case list and record the performance</li><li>- Iteratively update the test scenario document</li><li>- Identify and solve unexpected issues</li></ul>	All members	W4-W6	<ul style="list-style-type: none"><li>-Detailed test results (Document/Video/Screenshot, etc.)</li><li>-Improved test scenario document</li></ul>
5	User Experience Evaluation	<ul style="list-style-type: none"><li>- Collect feedbacks from users (the rest of group members)</li><li>- Evaluate the</li></ul>	<ul style="list-style-type: none"><li>-Testing members</li><li>-User experience evaluator</li><li>-Recorder</li></ul>	W7-W8	<ul style="list-style-type: none"><li>-User experience evaluation document</li><li>-Improvement recommendations</li></ul>

Step No.	Activity	Description	Participants	Project Period	Estimated Result
6	Results Analysis	- Analyze the result of testing and user experience	All members	W9-W10	- <i>XMind</i> software quality evaluation document
7	Final Report Editing and Presentation	- Organize all the results so far and compile the final report - Prepare for the presentation (make slides and rehearse the presentation)	All members	W11-W12	-Comprehensive final report -Presentation slides -Detailed data file involved

**Note:** This is the planned walkthrough procedure for our group project. It would be adjusted and improved as needed if there are any changes.