Code Review & SRS Assessment Rubric

# Objective

For the code review, this assessment is a measure of the work done on an individual level of members on the team. This is defined by how much the individual has learnt, and how meaningfully the work done has contributed to the project.

For the SRS, teams will be graded based on how well they have delivered on the promises made in the SRS document.

# Evaluation

## When/Where

* The evaluation of this assessment will take place in the weeks of 9 to 11, during lab time.
* Each team needs to book a time slot within those 3 weeks to be evaluated by an instructor.
* This booking is to be made by Week 5. Registration details will be given in the MS Teams channel titled “Evaluation Booking”.
* Each evaluation will take about 40 minutes.
* Each team only needs to make one booking for this period. One person books on behalf of the team.

Booking to be made by : Week 5

## Required Documents

Deadline : Before the day of evaluation.

* Each member of the team is to fill up the Individual Code Report and name the report as per instructions in the given Individual Code Report template.
* Each team will also fill up the SRS Review Form as per the instructions given inside the form.
* The team will then consolidate all the Individual Code Reports and the SRS Assessment Form and zip them into a single file. This zip file is to be named with the format <a>\_crsa\_<b>.zip, where :

a = team name

b = number of the week this will be used for evaluation

E.g. My team is called “Bunny”. I will be using this for evaluation on week 11.

So I rename my file to Bunny\_crsa\_11.zip

Do not use any other type of zipping format

Deadline : Before the day of evaluation.

## Procedure

For the evaluation, the team will set up a single workstation with the Visual Studio project and source code. The project must be able to build and run to demonstrate the various features of the project.

During the evaluation, members will take turns to present the work they have done for the project. The Visual Studio project with the source code The Individual Code Report and the actual source code of the project will be all that is needed for the presentation. (No need for extra presentation materials, e.g. powerpoint etc).

# Rubrics

## Code Review (Individual)

|  |  |  |
| --- | --- | --- |
| Grade | Learnings (50%)  - Task/Feature complexity  - Difficulties faced  - Bug fix case study / Use of debugging tools  - Lessons learnt | Code Quality (50%)  - Readability, ease of understanding  - Ease of use by external party  - Scalability  - Extensibility  - Serviceability |
| A | Emergent and applied learnings beyond basic scope of taught content:  - feature/s made with extra considerations and attention to detail. Beyond functional.  - bug fixes required deeper understanding and investigation of various systems  - shows good knowledge of Visual Studio debug features (conditional breakpoints, call stack, variable monitoring)  - Gained knowledge unique to experience  - Reasonable answers to lecturer's questions | - Organised and clean (e.g. consistent coding conventions, no unused code)  - Easy to understand and use by external party  - Good adoption of software engineering design principles |
| B | C Fully Satisfied AND Some of A satisfied. | C Fully Satisfied AND Some of A satisfied. |
| C | Within the basic expectations of what has been taught:  - feature/s made with basic/bare minimum functionality.  - bug fixes simple, without need for much investigation  - shows basic knowledge on how to use Visual Studios to debug (break points, step in, step over, step out)  - knowledge and experience gained acts as foundational reinforcement | - Functional and integrated |
| F | C Not satisfied  OR No feature made  OR Nothing meaningful learnt  OR No idea on how to use any debugging features | C Not satisfied  OR Excessive copy and pasting  OR Excessive hardcoding of data  OR Code that will lead to leaks and crashes  OR Code is not functional  OR Code is not integrated |

## Team

There are certain modifiers that will be applied to all members of the team for both items being evaluated.

|  |  |
| --- | --- |
| Modifiers | Condition |
| -1 grade | Penalty applied for each occurrence of the following: - Wrong naming convention of file or folder submitted - Wrong file type submitted - File submitted not filled/filled incorrectly |
| F grade | Project does not run / Team is not prepared to show anything working |
| F grade | Missing team members at evaluation (unless excused by instructor) |
| F grade | There are disputes on who should claim credit for work done |
| F grade | Any required files not submitted |

# Re-evaluation

In weeks 12 and 13, Individuals/Teams may book a slot to get re-evaluated for a better grade. Slots will be limited, and priority will be given to the groups/individuals with lower grades for this evaluation. Do note that it is still possible to score worse at the re-evaluation.

Updated versions of the required documents will be required for re-evaluation.