Deliverable 3: Increment 2

The increment 2 deliverable contributes to the Project Portfolio and contributes 15% towards the total marks for the portfolio. This deliverable is the second increment of your application, as planned by you during envisioning (deliverable 1), modified through feedback and built in the second sprint.

What should be included:

- **Working Code**
- **Short Document / Slides as Discussion Aid**
  This should enable a purposeful conversation with your supervisor during the sprint review meeting. The contents are up to you, but may include:
  - Key design artefacts
  - Discussion of key design choices / decisions
  - Key storyboards and screenshots
  - Key test outputs against scenarios
  - Responses to feedback
  - Sprint burndown chart

Format

The submission material should be collated as a single .zip file. Please name this file `team_X_increment2.zip`, where `X` is your team number. The file must contain:

- a `code` directory with:
  - your compiled, working code as a single `increment2.jar` file.
  - your source code in a `src` subdirectory.
  - (optional) a short `readme` file to describe how to run the code if there are additional dependencies.
- a `screenshots` directory with:
  - screenshots showing the main views and input dialogs of your application.
- a `documentation` directory with:
  - the documentation in PDF or standard MS Office formats.

Submission

Hand in your work through the ECS coursework hand in system.

Deadline

Friday, 23rd April 2021, 4pm (for electronic submission).

Reviewing Process

Your work will be reviewed on the Monday, Tuesday or Wednesday immediately following the hand in deadline. It is your responsibility to arrange a time on those days that is mutually acceptable for everyone in your team, your supervisor and your second reviewer. The review meeting will be a discussion with your supervisor and a second reviewer of up to 30 minutes, where you demonstrate your working software, explain your key design decisions and the progress of your project since the previous review. Your submitted documents should be chosen carefully to support this discussion.

To demonstrate your software, you need to make sure that your application is loaded on your own computer and it is ready to run during the on line meeting. Whilst we have asked for a copy of your source code for this deliverable, we will not be marking the code, we are marking the working software.

Your supervisor and the second reviewer will give you verbal feedback at the sprint review meeting. However, they will not mark you at the meeting directly. Your final marks for the deliverable will be determined, moderated and communicated to you by the course organisers.

It is mandatory for all of you to attend the review meeting.

Marking Scheme
You will receive a mark of 0-5 for each of the following categories:

- Application (weight 7)
- Design (weight 3)
- Testing (weight 3)
- Planning (weight 2)

Specifically, we will evaluate you on the following criteria within each category:

- **Application**
    - It compiles and runs without errors.
    - It offers real value to the customer.
    - The increment you have planned to deliver produces the correct outputs, as specified in the project definition.
    - Any outputs are displayed in a format that is clear to the customer.
    - User controls are appropriate and intuitive.
- **Design**
    - Sensible design decisions have been made to support development.
    - A suitable architecture has been chosen to facilitate maintainability.
    - The team has used appropriate design artifacts to support their decisions (e.g., UML diagrams, storyboards, scenarios).
    - The team have used sensible prioritisation to ensure that the best value is delivered on time (in terms of the sprint plan)
    - The team has incorporated any feedback from the previous deliverable.
- **Testing**
    - The team has taken steps to systematically test their application.
    - Suitable unit tests have been developed to test key units of functionality and components in the application. These perform both defect and validation testing.
    - Adequate test coverage is ensured by using boundary and partition testing.
    - There is evidence the team is performing regression testing.

    - The team is testing their application against well-defined acceptance criteria that are part of their user stories
    - The team is testing their application against scenarios.

- **Planning**
    - There is a clear burndown chart in the correct format, showing progress for increment 2.
    - A clear definition of done exists and has been followed correctly.
    - Where necessary, appropriate re-prioritisation of work has taken place.
    - There is an appropriate sprint plan in place for increment 3.

Coursework mark distribution sheet

Your group may optionally choose to fill out and submit a coursework mark distribution sheet if the individual efforts towards this deliverable have been uneven. This form is available on the module home page, along with the rules governing it. The form (if used) should be appended to your report/slides.