

Product Backlog (/2.5)

- The comments from Deliverable 3 must be addressed.
- ✓ For any comments that were not addressed, deduct -2 points.
- The backlog should have been updated with respect to sprint numbers, story points, etc.
- ✓ If there is no update, deduct -2.5 points.

Sprint Backlog 4 (/2.5)

- The comments from Deliverable 3 must be addressed.
- ✓ For any comments that were not addressed, deduct -2 points.
- Should reflect the product backlog. That is, all the user stories that are assigned to Sprint 4 in the product backlog, should be shown in Sprint Backlog 4.
- ✓ For any missing user story, deduct -2 points.
- ✓ If Sprint Backlog 4 does not reflect the product backlog, deduct -5 points.

Updated GitHub (/2.5)

- It should be updated from Deliverable 3. If not, give 0.
- Contributions should be consistent, and all students contribute.
- If a student does not contribute to Github, the student will be graded as 0.

Updated Kanban (/2.5)

- Kanban board should show progress.
- ✓ It should be updated from Deliverable 3. If not, give 0.
- If no progress is shown, the grade for this part will be 0.

Sprint Review 4 (/5)

- Updated, and it follows the guideline.
- Should follow the template posted on Brightspace.
- For any missing item from the template, deduct 2 points.
- Should be for Sprint 1- 4

SRS + Use Case Models and Descriptions (UCM) + Architecture Design (AD) (/5)

- Need to check if the comments from Deliverable 3 have been addressed.
- ✓ For any comment that is not addressed (every single one), deduct -1 point.
- If the SRS, the UCM, and AD didn't need any update, then the 5% will be added to the sequence diagram grade, and no grade will be given for SRS+UCM+AD. That is, SRS+UCM+AD will be 0, and Sequence Diagram will be /15.

Sequence Diagram (/10)

- The comments from Deliverable 3 must be addressed.
- ✓ For any comments that were not addressed, deduct -2 points.
- If the number of ASD were below 7 or DSD were below 3 in Deliverable 3, and they did not change in Deliverable 4, deduct -5 points for each.

Domain Model (/10)

- Need to check if the comments from Deliverable 3 have been addressed.
- ✓ For any comment that is not addressed (every single one), deduct -2 points.
- If the number of classes was below 10 or the model was very complicated in Deliverable 3, and they did not change in Deliverable 3, deduct -5 points for each.

Design Pattern and DCD (/35 or /40 (if SRS+UCM+AD has not updated)

- UML class diagrams for design patterns are 15 points in total, and UML class diagrams for detailed design (DCD) are 20 points in total.
- Students need to pick 1 – 2 design patterns related to their application development, show how they are implemented with class diagrams, and explain and justify their decision.
- ✓ Design patterns need to show classes with their attributes, associations, and methods that would be representative of the system under development.
- For any classes, attributes, associations, and methods that are missing or wrong, deduct -2 points.
- ✓ If the design patterns do not make sense for the type of applications the students are developing, deduct -7.5 points per each design pattern.
- ✓ If the description of the design patterns is missing, deduct -7.5 per each pattern.
- ✓ If the design patterns do not have proper justification or the justification of why the pattern is suitable for the application under the development, deduct -7.5 per each pattern.
- ✓ Design pattern should match the DCD. Otherwise, deduct -5 points.
- Students need to show an overview design of your application with a class diagram (DCD).
- ✓ The DCD need to match their development and shows how design patterns are used. If it doesn't match the development or shows how the design patterns are used, deducts -5 points per each.
- ✓ The DCD should show classes with their attributes, associations, and methods that would be representative of the system under development and the user stories. They should match the design sequence diagram and domain models.
- For every mistake or mismatch, deduct -2 points.

Configuration Management (/10)

- Software configuration management plan which follows IEEE 828-2005 standard and needs to have the following sections:
- ✓ Introduction – Describes the plan's purpose, the scope of application, key terms, and references.
- ✓ SCM Management (Who?) – Identifies the responsibilities and authorities for managing and accomplishing the planned SCM activities.
- ✓ SCM Activities (What?) – Identifies all activities to be performed in applying to the project.
- ✓ SCM Schedule (When?) – Establishes required coordination of SCM activities with other activities in the project.
- ✓ SCM Resources (How?) – Identifies tools and physical and human resources required for the execution of the plan.
- ✓ SCM Plan Maintenance – Identifies how the Plan will be kept current while in effect.
- For each section or subsection that is missing or incorrect, deduct -2 points.
- For each item that is missing, deduct -2 per every single mistake.

A new version of the application (/15)

- If there is no progress in comparison to Deliverable 3, give 0.
- Students need to develop at least 1 to 2 new features of their application.
- ✓ If no new feature is implemented, give 0. Otherwise, if at least 1 new feature is started, do not deduct any points.
- Students also need to refactor some of their classes to match their DCD and design patterns.
- ✓ If the code does not match the DCD and design patterns at all, then deduct -10 points.
- ✓ If it partially matches, do not deduct any points but comment on the next deliverable

that they need to improve.

- If there is no UI and class implementation such as sign-up, or login, deduct -5 points for each.
- If the features from the last deliverable are not updated, deduct -2 points.
- All the dependencies, requirements etc, must be all set.
- ✓ If there is nothing, deduct -5 points.
- A README file also needs to be updated.
- ✓ If there is no update according to the progress, deduct -5 points. If the update is not needed, then do not deduct any points.

Total = /100