

Milestone #1: Tasks

Task #2.1:

You will start working in the development, and perform one (1) Scrum Sprint.

What to submit?

- a. Sprint planning document.
- b. Sprint backlog document.
- c. Sprint review document, including burndown chart.
- d. Sprint retro document (one per group).
- e. Word document with ClickUp screenshots: i) at the start of the sprint, ii) two mid-way the sprint, iii) at the end of the sprint, iv) two inside different cards.

Task #2.2:

You need to code and implement some 4 features. Each feature needs to have about 4-7 user stories *at least*. Having less stories will make you lose marks.

Which features do you need to implement? You will have to ask the client, in the corresponding session, and elicit the features.

Remember that they don't need to be *exact copies* of IMBD, but rather some simplified versions. They need to follow the "Limited Scope" restrictions.

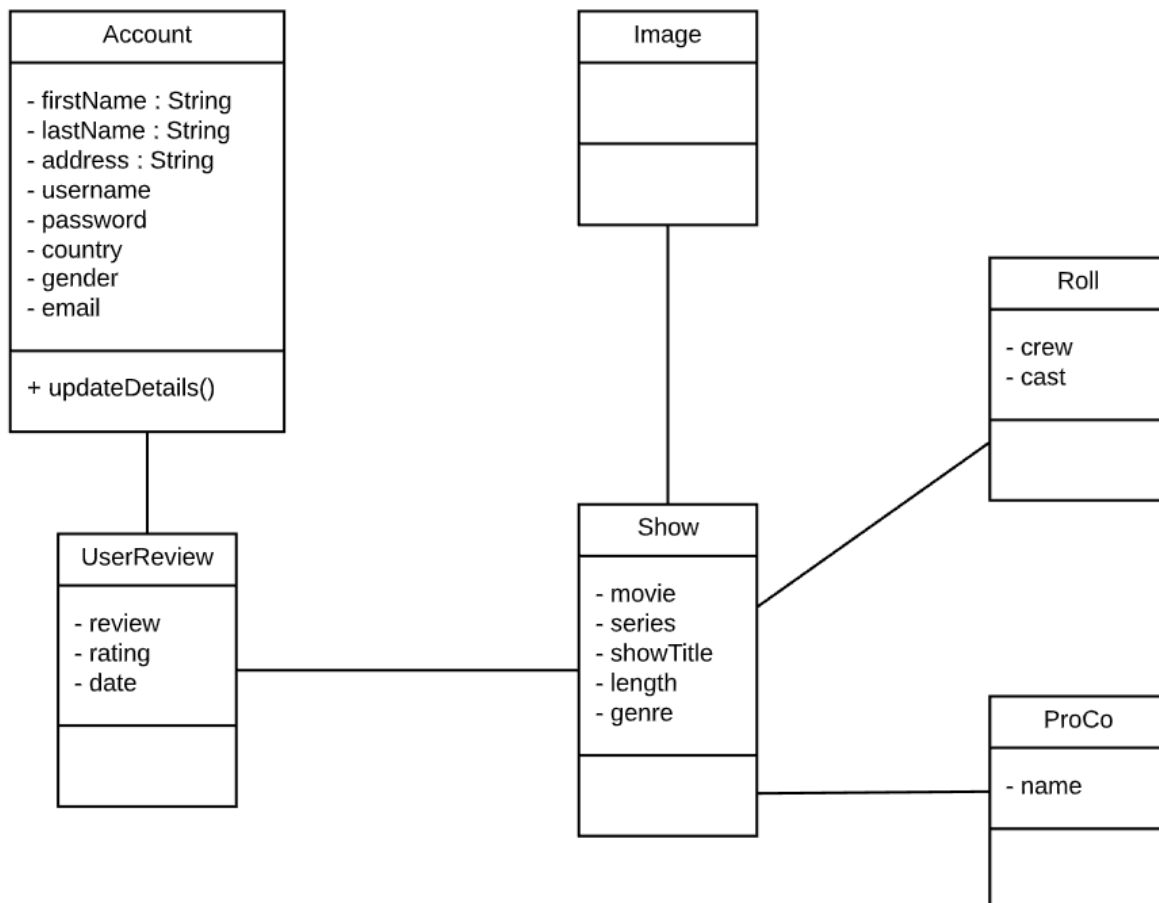
Help! Deadline is almost here, and we haven't finished implementing everything!

- Life is agile. Step 1: do not stress and read the following.
- The important bit is that you get triple consistency between:
 - What you planned to do (sprint backlog, sprint planning),
 - What you did (code)
 - What you *say* you did (sprint backlog again, sprint retro, burndown chart, sprint review).
- Basically, what you do is mark those features as UNFINISHED in the sprint backlog, and leave some REMAINING EFFORT on your burndown chart (i.e. your chart should not reach 0 in the last day). Discuss why this happened in the review/retro.

Task #2.3A: Class Diagram:

Complete and update the class diagram based on the scenario and the code (the code is a group assignment in your corresponding GitHub classroom).

- Submit the JPG file of the class diagram.
- Remember to upgrade relationships and use correct syntax. *Your class diagram should match your code: you are supposed to update and change this diagram.*



Task #2.3B: Architecture:

Write a word document (no more than 3 pages, including diagrams or screenshots) that answers the following questions:

- Which architectural patterns did you implemented and how did you do it?
- Which architectural patterns you did not implement and why?

Your answer cannot consist of only screenshots, and must have at least 400 words on each answer.

Task #2.4: Sequence Diagram

You should create a sequence diagram for the scenario below. You should highlight how objects will interact to achieve the aims of the user, and any objects that are created or destroyed.

Your diagram MUST demonstrate:

- Consistency with your class diagram (this includes associations and class names) and IMDB and *your code*.
- Completeness of scenario and consistency with the project scope.
- Only notation covered by the lecture notes.
- Correct demonstration of the following sequence diagram concepts:
 - a. Participants (objects), lifelines, and activations
 - b. Appropriate Messages
 - c. The use of Frames

What do I need to model in this sequence diagram?

Create a diagram to demonstrate the scenario of a user (not logged in) searching for a movie, selecting the movie from the shortlist presented, and viewing the page presented by the system (with the retrieved images and cast members).

Task #2.5: State Diagram

Create a state diagram as per the scenario below. Your diagram MUST demonstrate:

- Consistency and completeness with both the project scope, your class diagram.
- Only notation covered by lecture notes.
- Correct use of each of the following state diagram concepts:
 - Appropriate identification and use of entry & exit notation
 - Appropriate identification and naming of states
 - Appropriate transitions – each MUST have an event or guard specified
 - At least one example of a relevant internal action
 - At least one example of a transition with a guard condition

What do I need to model in this state diagram?

Create a state diagram modelling a show's status on IMDB, as predominately discussed in the last 3 bullet points of "Additional Information" of the Project Definition.

But my code doesn't have all of this implemented?

That is because here you are doing MDD: model driven development. You model first, you implement the code later.

Task #2.6: Activity Diagram

Create an activity diagram for the scenario below. Your diagram **MUST** demonstrate:

- Completeness of scenario and consistency with the project scope, diagrams (all of them and *your code*).
- Only notation covered by lecture notes.
- Correct use of each of the following activity diagram concepts:
 - Actions, documented at a relevant level of detail
 - Decisions, joins, forks, and merges
 - Swimlanes by role
 - Appropriate UML notation

What do I need to model in this state diagram?

Create an activity diagram for the function of Adding a Show, as undertaken by a registered user, and the admin's actions. Your diagram should include the Admin's role in accepting or rejecting the show, as discussed in the "Additional Information".