

## **CCAPDEV Term 1, AY 2022 – 2023**

### **Machine Project – Phase 2**

**Groupings:** At most 3 members in a group  
**Deadline:** November 25, 2022 (Friday) 4:00 PM  
**Percentage:** 20%

**Deliverables:**

zip file containing all files for the machine project

**Submission guidelines:** Submit the zip file to AnimoSpace

**Filename format:** CCAPDEV-Phase2-<Section>-Group<#>.zip

### **SPECIFICATIONS**

Your task is to create a web application of your choice based on your proposed features.

#### **Phase 2 – Back-End Development**

For this phase, the group is required to develop the back-end logic of the proposed web application. The project's architecture does not need to be implemented in MVC yet but is highly encouraged. Phase 3 requires the project to be in MVC.

The README.md file at the root directory of the repository should contain instructions on how to set-up and to run the application locally through a Node.js server.

#### **On Model**

- Database design must be complete.
- The project should use MongoDB for the database. Mongoose as an ODM is accepted.
- Data should be retrieved from the MongoDB database. There should be at least 5 sample data in the database for each applicable feature. For example, in a forum web application, there should be at least 5 sample users, 5 sample posts, and 5 sample comments loaded from the database to the web application.
- All database-related files should be in the model folder.

#### **On View**

- All views for the proposed features must be visible and can be navigated from the index webpage.
- All views must be accessible from navigational links and buttons within the application.

- All views should be using a template engine, preferably hbs. Other template engines, such as pub and ejs, are also allowed.
- All views are expected to be in the views folder.

### **On Controller**

- The web application should be hosted using a Node.js server.
- It should be accessible through localhost:3000.
- All routes should be properly and completely implemented. Thus, the user can easily navigate through the different features of the web application.
- All forms must use the appropriate HTTP methods (i.e., login forms use POST, search queries use GET, etc.). Form validation does not need to be implemented yet.
- Session management and password hashing do not need to be implemented yet for this phase.

### **WORKING WITH GROUPMATES**

For this project, you are encouraged to work in groups of at most 3 members. Make sure that each member of the group has approximately the same amount of contribution to the project. Problems with groupmates must be discussed internally within the group and, if needed, with the lecturer.

### **DELIVERABLES**

Submit a zip file containing all files for the machine project via AnimoSpace.

### **HONESTY POLICY AND INTELLECTUAL PROPERTY RIGHTS**

**Honesty policy applies.** Please take note that you are **NOT allowed to borrow and/or copy-and-paste** – in full or in part any existing related program code from the internet or other sources (such as printed materials like books, or source codes by other people that are not online). You should develop your own codes from scratch by yourselves, i.e., in cooperation with your groupmates.

According to the handbook (5.2.4.2), “faculty members have the right to demand the presentation of a student’s ID, to give a grade of 0.0, and to deny admission to class of any student caught cheating under Sec. 5.3.1.1 to Sec. 5.3.1.1.6. The student should immediately be informed of his/her grade and barred from further attending his/her classes.”

## RUBRIC FOR GRADING

Criteria	Ratings					Points
<b>Database</b>  The database model is completely implemented.	<b>EXCELLENT</b> <b>20 pts</b>  The implemented database model is 100% complete.	<b>VERY GOOD</b> <b>12 pts</b>  The implemented database model is partially complete (>75%).	<b>GOOD</b> <b>7 pts</b>  The implemented database model is partially complete (>50%).	<b>DEVELOPING</b> <b>3 pts</b>  The implemented database model is sparsely complete (>25%).	<b>NO MARKS</b> <b>0 pt</b>  The database is not implemented.	20 pts
<b>Views</b>  All views fulfill the project features in the project proposal.	<b>EXCELLENT</b> <b>15 pts</b>  All views necessary to access all features are complete and are navigable from the index web page.	<b>GOOD</b> <b>7 pts</b>  Not all views are navigable from within the site. The user has to access a page via its URL. Views are not in proper folder.		<b>NO MARKS</b> <b>0 pt</b>  Views are still in HTML. The project is not yet implemented with a template engine.		15 pts
<b>Controller</b>  All routes for all proposed features are properly handled by the controller.	<b>EXCELLENT</b> <b>20 pts</b>  Controller properly routes all incoming requests to the proper response file / data.	<b>VERY GOOD</b> <b>15 pts</b>  Controller properly routes most incoming requests to the proper response file / data (1 – 2 missed routes)	<b>GOOD</b> <b>10 pts</b>  Controller properly routes most incoming requests to the proper response file / data (3 – 4 missed routes)	<b>DEVELOPING</b> <b>5 pts</b>  Controller properly routes most incoming requests to the proper response file / data (>5 missed routes)	<b>NO MARKS</b> <b>0 pt</b>  Controller does not accomplish the intent of the app.	20 pts

<b>Content Organization</b>  Information within the application is well-organized and relevant to the user.	<b>EXCELLENT</b> <b>5 pts</b>  Presentation of information, including access and manipulation, is clear and appropriate for the proposed feature of the web application.	<b>GOOD</b> <b>2 pts</b>  Presentation of information, including access and manipulation, could be presented in a more appropriate way for the proposed feature of the web application.	<b>NO MARKS</b> <b>0 pt</b>  Content could not be accessed or manipulated.	5 pts
<b>Navigation</b>  The web application is easy to navigate.	<b>EXCELLENT</b> <b>5 pts</b>  The web application is easy to navigate. Users are able to navigate through the web application easily.	<b>GOOD</b> <b>2 pts</b>  Users are sometimes confused on the navigation inside the web application.	<b>NO MARKS</b> <b>0 pt</b>  Users cannot navigate without the help of the developer.	5 pts
<b>Visual Design</b>  The view is aligned with the project features.	<b>EXCELLENT</b> <b>5 pts</b>  The view is aligned with all project features. Users are able to achieve a task easily.	<b>GOOD</b> <b>2 pts</b>  The view is aligned with some project features. Users are sometimes confused on the necessary steps to achieve a task.	<b>NO MARKS</b> <b>0 pt</b>  Users cannot achieve a task without the help of the developer.	5 pts

<b>Graphics</b>	<b>EXCELLENT</b> <b>5 pts</b>	<b>GOOD</b> <b>2 pts</b>	<b>NO MARKS</b> <b>0 pt</b>	
Graphics are related to the purpose of the app.	Appropriate graphics are used when necessary. Icons are easy to understand. If it is difficult to understand, icons are accompanied by supporting texts.	Graphics are related to the purpose of the app but are not of good quality.	Graphics are not used, or only made the user distracted.	5 pts
<b>Total points:</b>				75