Machine Project – Phase 2

Groupings: At most 4 members in a group
Percentage: 20%

Deliverables:
`zip` file containing all files for the machine project

Submission guidelines: Submit the zip file to AnimoSpace
Filename format: `CCAPDEV-Phase2-Group<#>.zip`

SPECIFICATIONS

Your task is to create a web application based on the group's selected feature specification.

Phase 2 – Back-End Development

For this phase, the group is required to develop the back-end logic of the chosen web application.

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.
- It is recommended that the project use MongoDB for the database. Mongoose as an ODM is accepted. If the group is looking to use a different database program, please inform your lecturer ahead of time.
- Data should be retrieved from the 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 features must be visible and can be navigated to and from the index webpage.
- All views must be accessible from navigational links and buttons within the application.

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 4 members. Make sure that each member of the group has approximately the same amount of contribution for 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.

RUBRIC FOR GRADING

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

| Content Organization

Information within the application is well-organized and relevant to the user. | EXCELLENT 5 pts

Presentation of information, including access and manipulation, is clear and appropriate for the given feature of the web application. | GOOD 2 pts

Presentation of information, including access and manipulation, could be presented in a more appropriate way for the given feature of the web application. | NO MARKS 0 pt

Content could not be accessed or manipulated. | 5 pts |
|---|---|---|---|---|
| Navigation

The web application is easy to navigate. | EXCELLENT 5 pts

The web application is easy to navigate. Users are able to navigate through the web application easily. | GOOD 2 pts

Users are sometimes confused on the navigation inside the web application. | NO MARKS 0 pt

Users cannot navigate without the help of the developer. | 5 pts |
| Visual Design

The view is aligned with the project features. | EXCELLENT 5 pts

The view is aligned with all project features. Users are able to achieve a task easily. | GOOD 2 pts

The view is aligned with some project features. Users are sometimes confused on the necessary steps to achieve a task. | NO MARKS 0 pt

Users cannot achieve a task without the help of the developer. | 5 pts |

Graphics	EXCELLENT 5 pts	GOOD 2 pts	NO MARKS 0 pt	
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
			Total points:	75