

	Section	
	Title	
	Group Number (Filled by teacher)	

Undertaking

I/we the above-mentioned students hereby declare that we have read the document clearly and agree to complete the assignment.

I/we will be solely responsible for our assignment and we understand that any kind of plagiarism will result in “**zero**” marks in the assignment and subsequently will be reported to the disciplinary committee for further action.

Signatures (ID , Name and Signature)

Student 1	
Student 2	
Student 3	

General Instructions

1. The course teachers will not be teaching you the implementation as it is an assignment.
2. It will be the responsibility of the students to share the work among the group.
3. Some of the **self-study** topics may be included as part of the assignment.
4. Every group will have to present their work and explain their code during the viva/presentation.
5. The students are obliged to write code on their own with clear comments.
6. The students must mention the references of the websites and books used for their assignment.
7. Marks will be reduced and will be reported to the management if found to be plagiarized (same work from other groups).

Specific Instructions

1. The assignment is to be done as a group with **no more than 3 students** from the same section.
2. All members of the group must upload the assignment on the e-learning portal on or before the submission date without any differences (same file names and comments etc.)
3. Each group must print and submit the signed undertaking of this document (only Page 1) to your respective course teachers on or before **March 10, 2024.**
4. Each group is expected to prepare a prototype/front-end design of their assignment and the same must submit/upload on the provided link in e-learning on or before **April 01, 2024.**
5. The prototype/front-end design may be prepared using some professional tools or using Bootstrap.
 - Wix
 - Figma
 - Justinmind
 - Sketch
 - Framer
 - MockFlow
6. Each assignment must have **MERN** stack implementation and include all **CRUD** operations with proper form validations and appropriate messages.
 - Create
 - Read
 - Update
 - Delete
7. Each assignment must be presented with one database that has at least two collections (tables) and each collection with at least 20 documents(records) with relevant data.

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8. In a React application, a login form is used to authenticate users(login component) and ensure only authorized individuals can access the application's resources or perform certain actions.
9. The MongoDB collections must have datatypes such as **Text**, **Numbers**, **Boolean**, and **Date**.
10. All assignments must have some calculations with the data from the MongoDB.
11. Final Assignment submission in e-learning on or before **May 19, 2024**.

Marks Distribution

Sno	Item	Marks
1	Front-End Development	9
	<i>Suggested Evaluation Criteria Areas</i>	
	Creativity, Organization, User experience design considerations	
	Proper use of HTML, CSS Framework, and client-side scripting languages.	
	Implementation of front-end functionality using React. (<i>React components, navigation/routing, hooks</i>)	
	Form Validations/Error Handling	
	User Authentication	
2	Back-End Development	12
	<i>Suggested Evaluation Criteria Areas</i>	
	CRUD operations and logic implementation	
	Database Design and Management	
3	Presentation & Viva	4
Total		25