

IT645- Project Evaluation Guidelines

Present a working demo of the project: frontend and backend.

Each member should explain their contributions.

Show the code in detail as per the following guidelines

A. Frontend (15 Marks)

HTML, CSS and Javascript (5 Marks)

1. Use semantic elements: <header>, <Section> <nav> etc instead of <divs> wherever applicable.
2. should support responsive web design
3. Tailwind CSS should be used for styling
4. Use atleast 1 thrid party Web API in your project.

React (10 Marks)

1. Use function components preferably
2. Use fetch API to make HTTP requests to server side
3. Use atleast these hooks in your project: useState, useEffect, useRef and useContext
4. Use ReactDOM for navigation

B. Node and ExpressJS Backend (25 Marks)

1. Use development dependencies: morgan nodemon cors
2. Structure URLs with clear endpoints (e.g., /api/users/:id).
3. Each API endpoint should represent a unique resource. Use route parameters to identify a resource
4. Implement proper status codes for responses (e.g., 200 for success, 404 for not found, 500 for server errors).
5. Use all HTTP methods GET POST PUT DELETE PATCH atleast once
6. Save persistent data using MongoDB and Mongoose
7. Define schemas in the /models directory.
8. Use CRUD (atleast one each) operations.
9. Use jsonwebtoken for authentication
10. Use express.static() and express.json() middleware
11. Write atleast one custom middleware function and use the middleware stack/chaining
12. Store sensitive data (API keys, database URIs) in environment variables using a .env file, and add this file to .gitignore.
13. Show the server side rendering of few pages using EJS.

C. Source files and documentation (5 Marks)

1. The source code should be put on your Github account and share the link to clone the repository. Maintain a README.md file with setup instructions, instructions to run the project, project structure, and API endpoint descriptions.

2. Deploy on vercel/Netlify and share the link (optional)
3. A report (soft copy) which contains the screenshots of all your webpages and the description of main functionalities should be submitted before your presentation. Document any third-party libraries or tools used in the project. It should contain a working Github link to your project.

D. **Correct folder structure (2 marks)**

E. **Testing (3 Marks)**

- a. Test all endpoints using POSTMAN

F. Other generic guidelines:

- a. Follow ES6+ standards. Prefer const and let over var.
- b. Use arrow functions where possible.
- c. Follow camelCase for variables and functions.
- d. Use PascalCase for React components.