

Capstone Project for XT FSD

- Each participant will be given an individual FullStack project
- Participant will have 2 weeks to meet the evaluation criteria of the projects
- All repositories must be created as private projects on <https://gitlab-sapient.stackroute.in>

Evaluation Criteria

Submissions will be evaluated based on the demonstration of following technologies and skills:

- ExpressJS
 - REST API Design and Implementation
 - Ability to authenticate and use standalone APIs
 - Swagger Documentation (openapi v3)
- PassportJS
 - Gitlab / Google Authentication
 - Scalable Authentication
- MongoDB
 - Schema Design
 - (UI --> Datastore) Impedance Mismatch
 - Structural and Integrity Mismatch
 - Manipulative differences
- Socket.io
 - Namespace and Rooms Design and Usage
 - Message Format
- Redux
 - State, Action design
 - Saga design
- React+Typescript
 - Component Design (Thinking in React)
 - Performance Optimization
 - Lazy Loading Components
 - CSS Best Practices
- CI / CD
 - Unit Testing - ExpressJS, Redux, Redux Saga, ReactJS Components
 - Test Coverage
 - Negative Test Scenarios
- Performance and Accessibility
 - Time to first load
 - Bundle Size

Schedule

13 Feb

- Participants are assigned one out of the four capstone projects

- Project Problem Statements and Orientation Slots for 14-Feb will be communicated via email and slack

14 Feb

- 9.00 - 9.30 - Problem Statement 1
- 9.45 - 10.15 - Problem Statement 2
- 10.30 - 11.00 - Problem Statement 3
- 11.15 - 11.45 - Problem Statement 4

15 Feb - Design Submissions

Participants should complete the following items and submit their design.

1. API Swagger Documentation
2. Mongoose Schema
3. ReactJS Static Components
4. Redux Store Design
 - types
 - including sagas
 - actions
5. docker-compose.yml

18 Feb

- Best design in each group will be selected and announced by the mentors by EoD

19-Feb (**S**) Design Checkpoint

- Participants with best design in each group will present their design to the rest of the group.
- Each participant will have 15 mins

22-Feb Implementation and Deployment Submission

26-Feb (**S**) Implementation and Deployment Checkpoint