COLLEGE CODE:0004
COLLEGE NAME : MADRAS INSTITUTE OF TECHNOLOGY, ANNA UNIVERSITY.
DEPARTMENT : INFORMATION TECHNOLOGY.

Completed the project named as
Phase : 2 – FE

NAME : FEEDBACK COLLECTION SYSTEM

SUBMITTED BY:
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SOLUTION DESIGN AND ARCHITECTURE

<u>Tech Stack Selection</u>

Frontend (UI):

React.js (SPA for feedback form & display)
CSS / Material UI (UI styling)
Axios/Fetch API (API communication)

Backend (API):

Node.js + Express.js (REST API)
Validation: Joi / express-validator
Security: Helmet, CORS, rate-limiting

Database:

MongoDB (Atlas or local)

UI Structure / API Schema Design

1. Feedback List Page (Home):

Shows existing feedbacks

Buttons:
Give Feedback → opens feedback form
Creator Login → login/register

2. Feedback Form Page (for users):

Linked to a specific creator's form
Fields: Name, Email, Rating, Comment

3. Creator Login / Register Page:

Login with UserID + Password

Or Register:

Mobile Number
Email
Type of Product / Service / Store
Password

4.   Creator Dashboard Page:

After login → creator sees:

Option to create new feedback form

View collected feedback from their users

Data Handling Approach

Users (Feedback):

Fill feedback → POST to /api/feedback/:creatorId
Stored in DB with creatorId reference
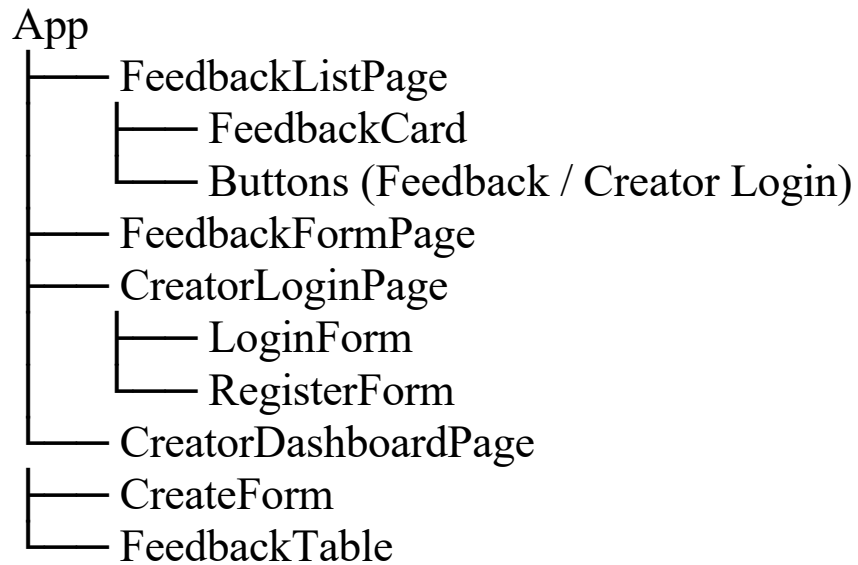
Creators (Auth & Form):

Register → Hash password → Save creator in DB
Login → Validate password → Return JWT
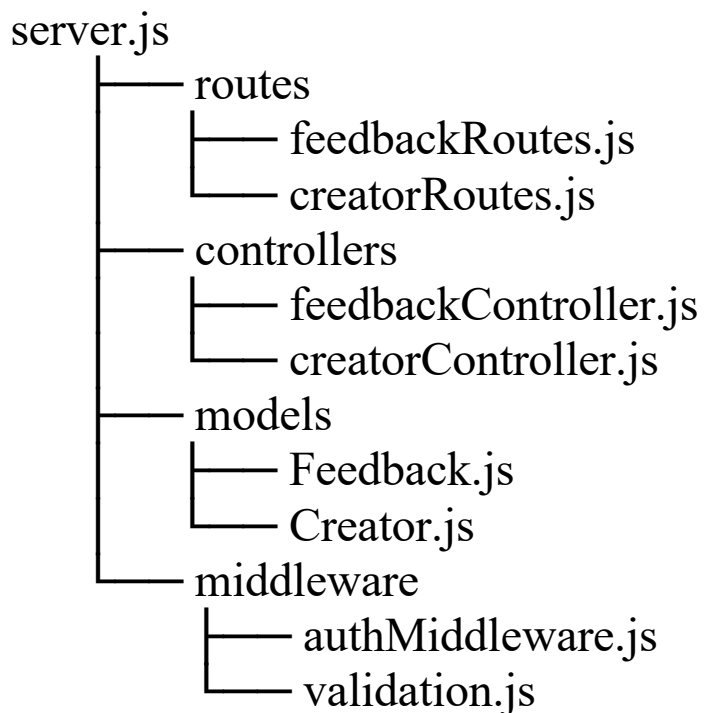
Authenticated creator can:

Create feedback forms
Fetch user feedback linked to them

Component / Module Diagram

React Components

```
App
├──── FeedbackListPage
│        ├─── FeedbackCard
│        └─── Buttons (Feedback / Creator Login)
├──── FeedbackFormPage
├──── CreatorLoginPage
│        ├─── LoginForm
│        └─── RegisterForm
└──── CreatorDashboardPage
├──── CreateForm
└──── FeedbackTable
```

Node Backend

```
server.js
├──── routes
│        ├─── feedbackRoutes.js
│        └─── creatorRoutes.js
├──── controllers
│        ├─── feedbackController.js
│        └─── creatorController.js
├──── models
│        ├─── Feedback.js
│        └─── Creator.js
└──── middleware
├──── authMiddleware.js
└──── validation.js
```

Basic Flow Diagram

Feedback Application Workflow