9530

St.MOTHER THERESA ENGINEERING COLLEGE

COMPUTER SCIENCE ENGINEERING

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Completed the project named as

Phase 2

LOGIN AUTHENTICATION SYSTEM

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Phase 2 — Solution Design & Architecture

Tech Stack Selection

- **Frontend:** AngularJS (1.x version)

- **Backend:** Node.js with Express (for handling API requests)

- **Storage:** $rootScope or $cookies for session data

- **Styling:** Bootstrap (optional)

UI Structure / API Schema Design

Login Page:

- Fields: Username, Password

- Button: Login

- Displays error messages.

Dashboard Page:

- Shows username.

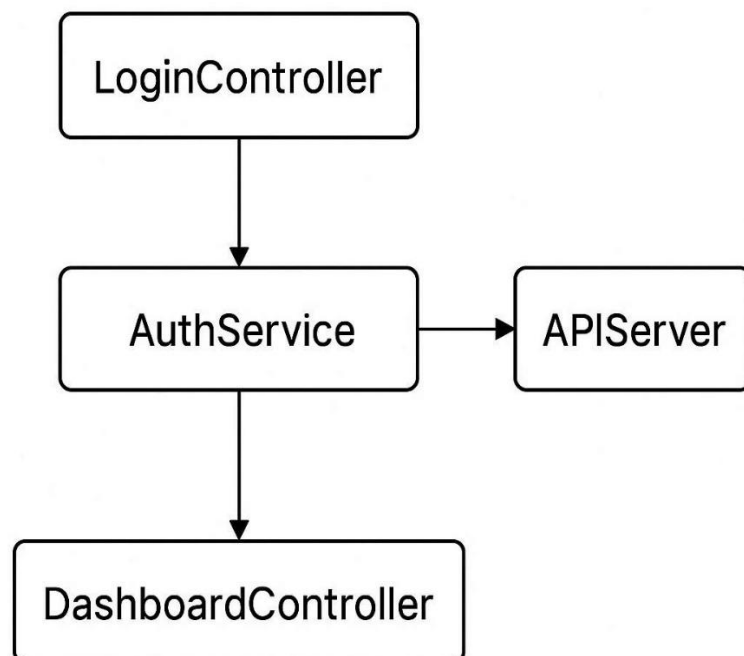- Logout button to end session.

API Schema Example:

```
{
  "username": "string",
  "password": "string"
}
```

Data Handling Approach

- Use AngularJS service (AuthService) to manage authentication state.

- Store session information in $rootScope or browser cookies.

- Send user credentials to the backend via $http.

- Handle API responses to update UI and manage session.

Component / Module Diagram

```
┌─────────────────────┐
│   LoginController   │
└─────────────────────┘
           │
           ▼
┌──────────────────┐      ┌──────────────┐
│   AuthService    │─────▶│  APIServer   │
└──────────────────┘      └──────────────┘
           │
           ▼
┌─────────────────────────┐
│   DashboardController   │
└─────────────────────────┘
```

Basic Flow Diagram