

## QR Solutions Project Assessment Report

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### Project Title:

**SmartNotes – Cloud-Based Notes Application**

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### Objective

To build a cloud-based notes application where users can securely create, read, update, delete (CRUD) their notes with features like search, tagging system, and social login via Google and GitHub.






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### Tech Stack

Layer	Technology
Frontend	React.js + Tailwind CSS
Backend	Express.js (Node.js)
Database	MongoDB (Mongoose)
Authentication	Google OAuth + GitHub OAuth
State Handling	React Context / Redux (if used)
Dev Tools	Postman, VS Code, Git, GitHub
Deployment (if done)	Render / Vercel

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### Key Features

-  **OAuth Login** (Google & GitHub)
-  **Create, Read, Update, Delete Notes**
-  **Search Notes by Title or Content**
-  **Tagging System** to categorize notes
-  **Responsive UI** for all devices

-  **Secure API** with user token .
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## **Architecture Overview**

Frontend (React)

↳ Handles UI, user interactions, API calls

Backend (Express)

↳ Exposes REST APIs for notes & auth

Database (MongoDB)

↳ Stores user data, notes, tags

OAuth

↳ Authenticates users using Google/GitHub

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## **How to Run Locally**

### **1. Clone the Repository**

```
git clone https://github.com/Esakkipandi0214/agenda-verse-build.git
```

### **2. Backend Setup**

```
cd ProjectFolder
```

```
npm install
```

```
npm run dev
```

### **3. Frontend Setup**

```
cd ProjectFolder
```

```
npm install
```

```
npm start
```