

# Full Stack Developer Assignment

Select Any one from the below Project

**Tech Stack:**

- **Frontend:** JavaScript-based framework (e.g., React, Next.js, Vue.js)
- **Backend:** Python-based framework (e.g., FastAPI, Django, Flask)
- **Database:** Any database of your choice

## Option 1: Live Stock Market Watchlist & Alert System

**Requirements:**

- Users should be able to search for and add stocks to their watchlist.
- Real-time price updates should be provided using WebSockets.
- Users should be able to set price alerts and receive email notifications.
- Implement user authentication to ensure watchlists remain private.

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## Option 2: Custom Data Pipeline for Web Scraping & Visualization

**Requirements:**

- Users should be able to input a website URL, and the system should scrape relevant data (e.g., stock prices, news headlines).
- The scraped data should be stored in a database and displayed as visual insights (charts, tables).
- A scheduled job should update the data daily.
- Implement JWT authentication to allow users to save custom scraping rules.
- Can use Celery (Task Queue), Redis

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## Option 3: Web Application with Django & ReactJS

**User Portal Features:**

- **Authentication:**
  - Login page with email/password authentication (including validation).
- **File Management:**
  - Users should be able to upload files.
  - A table should display uploaded files with details (Filename, upload date, file type – PDF, Excel, TXT).
  - Users should be able to download files by clicking on the filename.
- **Dashboard:**
  - Display total files uploaded.
  - Show breakdown of file types (e.g., PDF, Excel, Word).
  - Show the number of files uploaded by each user.

- **User Profile:**
  - Allow users to edit their username.
  - Enable users to add and manage multiple addresses.
  - Add/edit phone number.

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## Submission Guidelines

1. **Git Repository:** Create a Git repository for the application and share the repo link.
2. **Documentation:** Include detailed instructions on how to set up and run the application in the `README.md` file.