## Project Name

- Quote Generator Service

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## Project Idea

A simple webservice that:

- Generates and retrieves random inspirational quotes.
- Allows adding new quotes to a local SQLite database.
- Filters out quotes containing swear or inappropriate words using a profanity filter.
- Exposes custom Prometheus metrics for monitoring.
- Uses Grafana dashboards for visualization.

  The entire stack is containerized and runs locally using Docker Compose.

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## Team Members

- Tasmeem Mohsen Mahmoud
- Omar Hussien AbdelRadi
- Amira Hatem Anwar
- Malak Yasser Mohamed Ali
- Ahmed Mohamed Abdallah Ahmed Bakry

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## Work Plan

1. **Research & Analysis**
   - Audience personas

2. **Visual Identity**
   - Logo design

3. **Main Designs**
   - Poster

4. **Complementary Products**

5. **Review & Finalization**

6.  **Final Presentation**

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## Roles & Responsibilities

- Tasneem Mohsen – (Docker Compose)
- Amira Hatem – (Grafana)
- Omar Huissein – (Prometheus)
- Ahmed Bakry – (Docker & Documentation)
- Malak Yasser – (Kubernetes)

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## Instructor

- Ahmed Gamil

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## Project Files

You can find the full project files here:
[https://drive.google.com/drive/folders/1TkUkzulu4E4aL7a4uCEE_7vL0e1z4Iy_?usp=sharing](https://drive.google.com/drive/folders/1TkUkzulu4E4aL7a4uCEE_7vL0e1z4Iy_?usp=sharing)

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## License

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- **KPIs (Key Performance Indicators)** – Metrics for project success (e.g., response time, system uptime, user adoption rate).

## Quote Generation Count:
 Counts the total number of quotes successfully generated and served to users.

## Filtered Quotes Count:
 Tracks how many quotes were rejected due to containing inappropriate or profane content.

# Stakeholder Analysis

Below is the stakeholder analysis for the Quote Generator Service project:

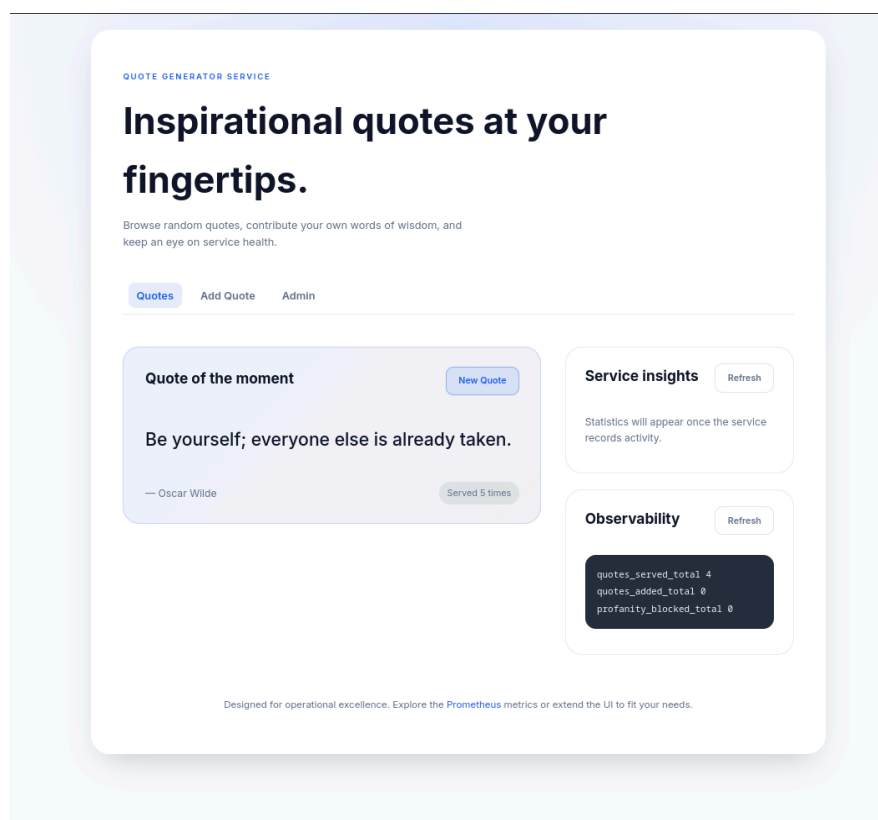| Stakeholder | Role | Interest / Motivation | Influence / Impact |
| --- | --- | --- | --- |
| Project Manager | Oversees the project, manages timelines and risks | High interest in timely delivery and stability | High |
| Backend Developer | Implements the API, database, and filtering logic | Interested in clean, scalable, and maintainable code | High |
| Frontend Developer | Integrates API endpoints in frontend apps or dashboards | Needs stable API endpoints and clear documentation | Medium |
| End Users | Consumers of quotes via apps, websites, or bots | Want high-quality and appropriate quotes | High |
| Content Moderation Team | Reviews or flags inappropriate content if detected | Ensures content complies with brand policies | Medium |
| Marketing Team | Uses the quote API for promotional or engagement campaigns | Wants high uptime and reliable quote variety | Medium |
| System Administrator / DevOps Engineer | Maintains the Dockerized deployment and database | Ensures smooth deployment, scalability, and uptime | High |

## Database Design

The project uses SQLite as a lightweight embedded database. Below is the schema design:

Table: quotes

- id: INTEGER PRIMARY KEY AUTOINCREMENT

- text: TEXT (content of the quote)

- author: TEXT (person who said the quote)

- views: INTEGER DEFAULT 0 (number of times the quote was retrieved)

- created_at: DATETIME DEFAULT CURRENT_TIMESTAMP

The system ensures that all quotes added to the database are validated to exclude profanity and inappropriate words before storage. The database file is persisted using Docker volumes.

## UI/UX Design

# Inspirational quotes at your fingertips.

Browse random quotes, contribute your own words of wisdom, and keep an eye on service health.

Quotes    **Add Quote**    Admin

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**Share a quote**                    Submit uplifting words. Profanity and empty submissions are gently declined.

Quote

What words would you like to share?

0/1000

Author

Who said it?

**Submit Quote**

All submissions are validated for language before being added to the collection.

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# Inspirational quotes at your fingertips.

Browse random quotes, contribute your own words of wisdom, and keep an eye on service health.

Quotes    Add Quote    **Admin**

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**Admin sign in**

Username

Password

**Sign in**

Use the default credentials admin / admin to manage the quote library.

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