

CHAPTER 3: System Design and Implementation

3.1 System Architecture

The Sales Visualizer App is designed as a web-based application built with Python and Flask. It provides functionalities like user interaction through web forms, visual data plotting, and email notifications. Below is the high-level system architecture:

- **Frontend:** HTML templates are used to render web pages like user input forms and visualizations ('users.html', 'about.html', 'index.html', 'graph.html').
- **Backend:** Flask handles HTTP requests, processes user input, generates dynamic content, and integrates services like Matplotlib for data visualization and Flask-Mail for email notifications.
- **Visualization:** Matplotlib is employed to create graphs, which are converted to Base64 strings and embedded in the frontend.
- **Email Service:** Flask-Mail sends email confirmations to users using the configured SMTP server.

3.2 Component Design

1. User Interface:

- Rendered using HTML templates.
- 'users.html', 'about.html', and 'index.html' serve as main pages for interaction and navigation.

2. Data Visualization:

- Graph generation using Matplotlib.
- Plots are saved as Base64-encoded images and displayed in the frontend without requiring file storage.

3. Email Notifications:

- User-submitted names and emails are used to send a predefined welcome message.
- SMTP configuration allows email dispatch via Gmail.

4. Routing:

- '/' (home): Displays the homepage ('users.html').
- '/about': Provides information about the application.
- '/index': Serves as the main application interface.
- '/login': Handles form submissions and email notifications.

3.3 Implementation Details

1. Flask Application Setup:

- Flask is initialized with routing for different endpoints.
- 'Flask-Mail' is configured with Gmail SMTP settings for sending email.

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