STGI Project Report

Project report on Summit Technology Group India (STGI). Submitted in partial fulfillment for Bachelor of Engineering in Computer Science.

by Saurabh

STGI: Digital Transformation Partner

Summit Technology Group India specializes in transforming banking organizations. They use modern technology strategies.

Founded over 14 years ago, Summit is a dedicated partner to financial institutions.

1 Experience
20+ years of delivering innovative solutions.

2 Client Alignment
Bankers, cloud engineers, and technologists focused on progressive strategies.

3 Mission
Modernize technology and operations for banks while reducing costs and improving security.

Internship Journey at STGI

Started internship on June 3rd, 2024. The role of Software Engineer Intern has been dynamic.

The environment at STGI is fast-paced and innovative.

Skills

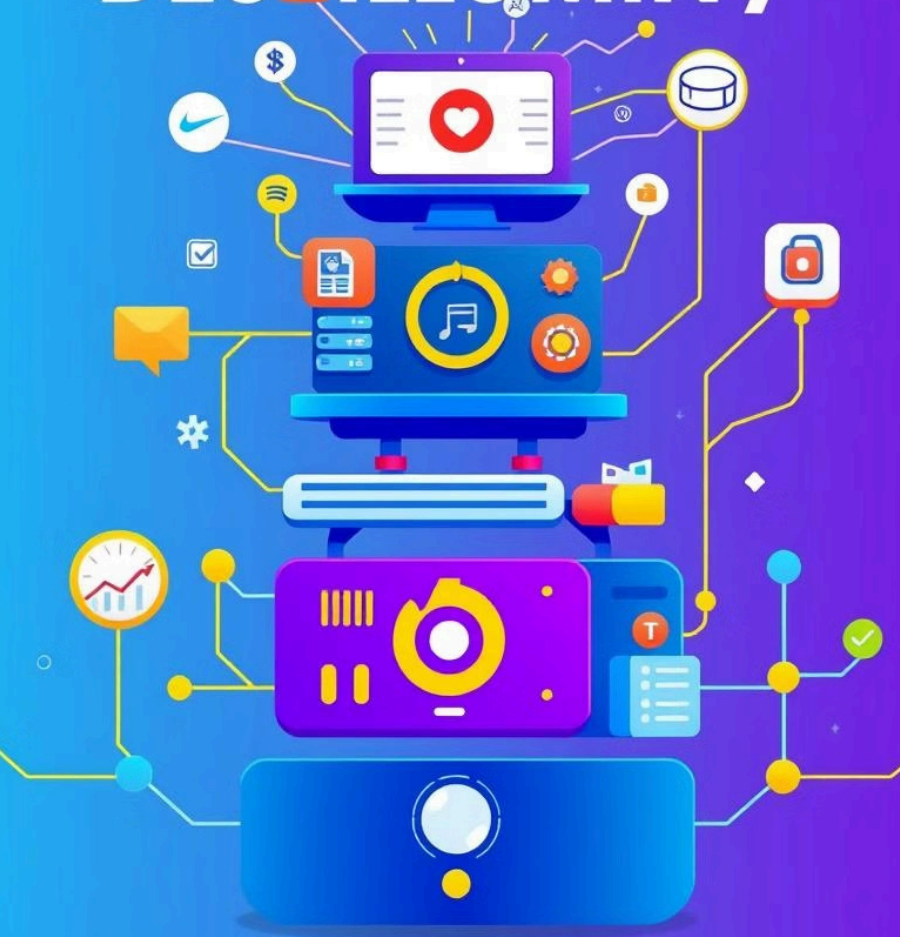Broadened technical and professional skills.

Learning

Introduced fresh learning opportunities.

Insights

Gained insights into industry standards and best practices.

Technology Stack Used

STGI uses a modern technology stack for its projects.

Backend

Python, Django

Database

PostgreSQL, Redis

Testing

Pytest

Payment

Stripe

Cache Manager Development

Created a caching solution using Django Cacheops and Dragon Cache Manager.

Enhanced system performance by 30-40% for public and tenant databases.

1

Objective

Enhance system response time.

2
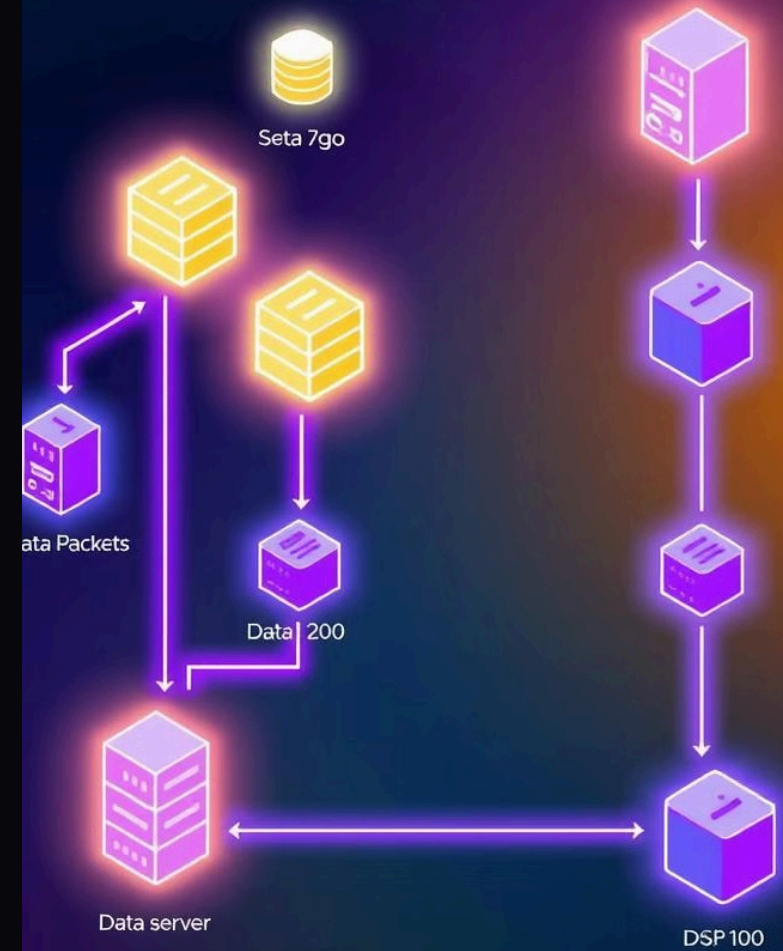
Implementation

Utilized Django Cacheops and Dragon Cache Manager.

3

Outcome

Improved performance by 30-40%.

UCC Search Flow Integration

Used CSC API to streamline the search process with Celery Workers.

Reduced processing time and avoided deadlocks.

1	Objective
2	Implementation
3	Outcome

Achieved time reduction and enhanced efficiency in search processes.

Payment Management with Stripe

Improved payment processing using Stripe Webhooks.

Enhanced the subscription handling for Loan Origination System (LOS) servicing.

Implementation

2

Implemented Stripe Webhooks.

Objective

1

Manage subscription payments effectively.

Outcome

3

Streamlined subscription and payment handling.

Email and Messaging System Redesign

Upgraded the messaging system to support scalable HTML, text, and JSON templates.

Cutting down update time by 50%.

Objective

Create a scalable and flexible messaging system.

Implementation

Built scalable HTML, text, and JSON templates.

Outcome

Reduced update time by 50%.