AHMEDABAD UNIVERSITY
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School of Engineering and Applied Science

Code Manager

Ashutosh Kakadiya   Harsh Mehta   Mihir Gajjar   Shreyas Patel

Mentor: Dr. Sanjay Chaudhary

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Introduction

- Designed a cloud based Software-as-a-Service (SaaS) application so that prospective users (programmers and developers) can open it in a web browser, and access application by services.
- These services provide the user an interface with features like code compilation, execution, storage, analysis and also provides suitable optimisations as suggestions, if required.

Implementation

- Successfully integrated compilers at server side
- Created service oriented architecture for Code Editor
- Implemented authentication service for user SignIn/SignUp
- Designed a database and integrated it with the system
- Implemented file storage system – Users can store their code on cloud
- Users can show their activity on their dashboard
- Developed an optimization service

Future Work

- Provide code optimization for C, C++, Python
- Provide same set of service for other popular programming languages
- Provide solution to error generated during compilation.

Cloud Architecture