



Department of Computer Science & Engineering

UE17CS355 - Web Tech II Laboratory

## Project Evaluation

Project Title : TaskMan - Team Communication App

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## Project Description

- TaskMan, our Team Communication App is designed to help organize projects for students and working professionals.
- The app provides a simple interface where users can create new projects, add collaborators to the project, chat with team mates, view and update progress of project tasks in real time.
- The app also recognizes incomplete tasks and searches for, and provides additional resources to help complete them.



## Technologies Used

### Technologies used in our app:

- Frontend Design: Ionic Framework using Angular.
- Backend Design: FireBase, Cloud Firestore NoSQL Database.
- Backend Design: Flask Framework, used to provide intelligence functionality to the app. sent using HTTP requests to the Flask server.
- Web Services: Prebuilt Rest API functions.



## Techniques Implemented

### Techniques We have Implemented:

- **Periodic Refresh:** This is used in the chat interface we have built into our app. We use this to fetch user status (whether the user is online or offline) in set time intervals. We also use this to update the projects page with new projects, and tasks as they are updated.
- **Multi-stage Download:** This is used in the chat interface. As the user interacts frequently with the recent chat this is downloaded first and the older chat is downloaded later when needed.
- **HTTP Requests:** We have created a simple POST API on our flask server, to which we send a request, to retrieve resource details.





## Intelligent Functionality

- Taskman provides Intelligent Functionality by identifying unfinished (incomplete) tasks and helps the user complete the task by providing additional resources to do so.
- This is applied to all unfinished tasks of each individual project. The resources can be accessed by entering the command “list resources” in the chat interface.
- We have implemented this by retrieving the document from the database corresponding to the current project, and building a web-scraper to retrieve resources related to the project tasks.



## Other Functionalities

Some other Functionalities we have included in our app are

- We have implemented commands in the chat interface such as “list tasks” to display the project’s tasks and “list members” to display the project’s members.
- (We also have some flags for these, to present more details.)

Side Note - We used TaskMan to communicate with each other and organize tasks, as we built TaskMan!



**Thank You!!**

