



STUDENT HIVE

CS 691 – Computer Science Capstone Project

Agenda

Team Members & Roles

Problem Statement

Project Description

Personas

Technologies & Algorithms

Team Working Agreement

Retrospective



INTRODUCTION

AGENDA

- Review progress towards project deadlines and milestones and discuss any delays or challenges encountered and identify solutions.
- Ensure alignment on the development progress and tasks completed and address any roadblocks hindering development and strategize solutions.
- Mark important submission dates and deadlines for the project deliverables on the shared excel sheet with everyone's schedules.
- Review presentation topics to ensure they align with project goals and discuss iterative updates to the presentation and delegate tasks accordingly.
- Brainstorm and study through personas to understand client requirements thoroughly and Identify and prioritize the necessary features and functionalities from the client's perspective.
- Discuss potential risks associated with the project and their impact and Strategize mitigation plans to address identified risks effectively.
- Emphasize the importance of interaction, attendance, cooperation, teamwork and discuss the significance of individual contributions and attention to detail for project success.
- Sync on the next steps for development, including task assignments, deadlines and Outline action items and responsibilities for each team member.
- Recap key discussion points and action items also confirm the date and time for the next meeting, if necessary and ensure open communication and collaboration among team members.



TEAM MEMBERS & ROLES

MEET OUR TEAM



SMIT

FRONT END
DEVELOPER



SUJAN SIDDARTH

TESTER



KIRAN KUMAR

FULL STACK
DEVELOPER



YASHKUMAR

DATABASE
ADMINISTRATOR



PARTH

PROJECT MANAGER



SIDDHARTHKUMAR

DATA ANALYST



RAJ KOUSHIK

FULL STACK
DEVELOPER



PROBLEM STATEMENT

PROBLEM STATEMENT

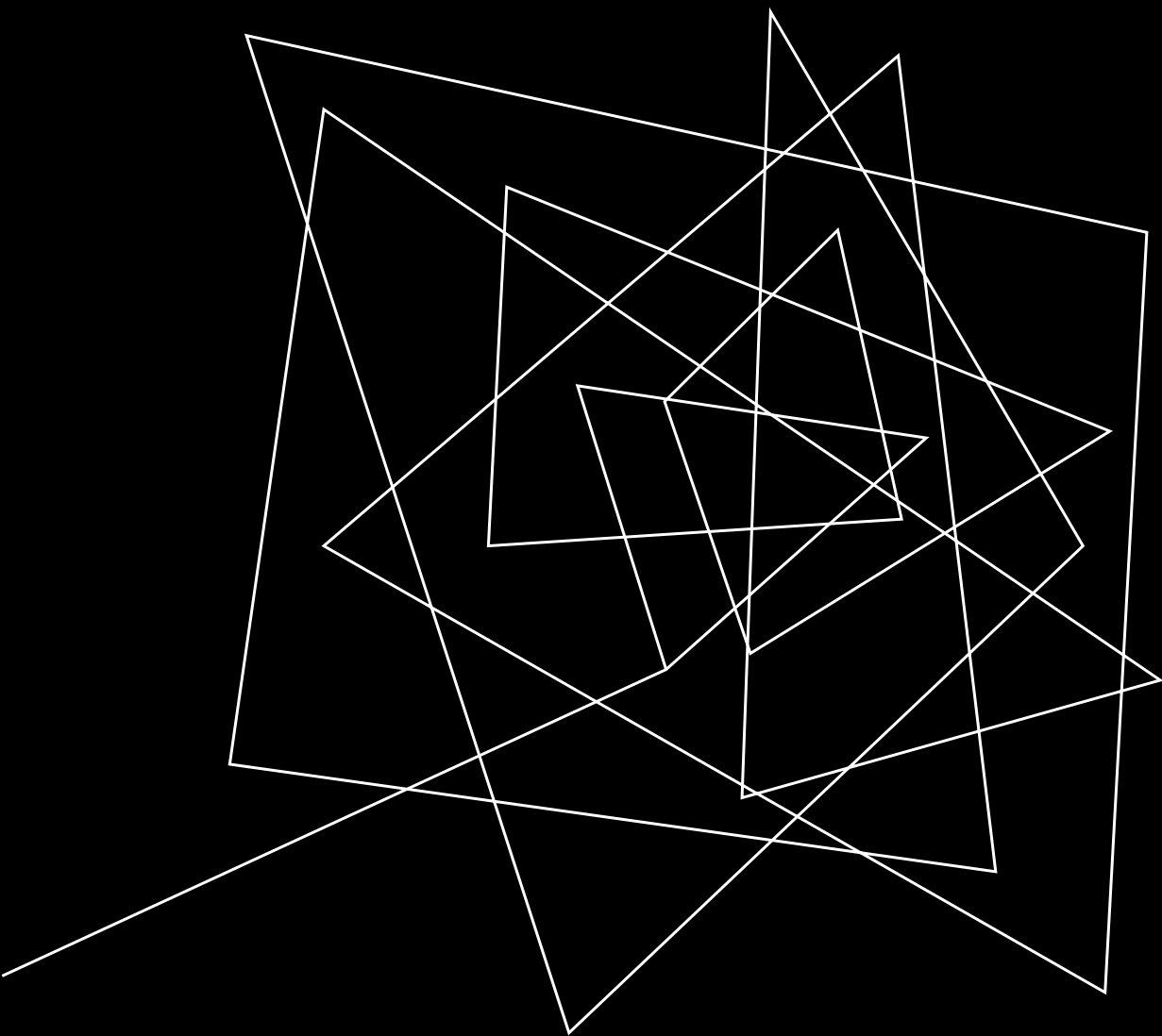
In the current landscape of student housing, there exists a lack of secure and convenient platforms tailored specifically to the needs of students seeking shared living arrangements. Many students struggle to find reliable and trustworthy accommodation options that align with their preferences, leading to frustration and uncertainty in their housing search. Additionally, the absence of comprehensive resources such as transportation information and nearby amenities further complicates the process, leaving students feeling overwhelmed and disconnected from their potential living environments. As a result, there is a pressing need for a solution that addresses these challenges and provides students with a seamless and empowering experience in finding suitable accommodation.



PROJECT DESCRIPTION

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"Student Hive" is a secure and convenient platform designed for students seeking shared living arrangements. By registering with their school email, users gain access to comprehensive listings tailored to their accommodation preferences and budgeting needs. Advanced search options and communication tools facilitate connections with potential roommates or landlords, while additional resources such as transportation information and nearby amenities enhance the overall living experience. With support and community engagement features available, "Student Hive" empowers students to confidently navigate their search and find the perfect accommodation suited to their needs.



PERSONAS

PERSONA 1: EMILY, BUDGET-CONSCIOUS STUDENT



Emily is a graduate student studying environmental science, deeply passionate about sustainable living and outdoor activities. To manage her finances while attending university, she searches for affordable housing options on Zillow, prioritizing rentals close to campus to minimize commute times and reduce her carbon footprint. She seeks roommates to share expenses, emphasizing the importance of access to public transport and local amenities like grocery stores that support her eco-friendly lifestyle. Emily's ideal home is a place where she can easily walk to campus, have space to grow her small container garden, and live comfortably within her budget.

PERSONA 2: ALEX, INTERN/CO-OP SEEKER



Alex is an undergraduate computer science student preparing for a summer tech internship in a new city. An avid coder and part-time gamer, Alex looks for short-term, furnished housing on Zillow that aligns with the duration of his internship. He values properties that are move-in ready and close to his workplace or well-connected by public transport, enabling him to focus on his professional development and explore his interests in tech meetups. Alex's search is driven by the need for flexibility, affordability, and a hassle-free living situation that supports his busy internship schedule.

PERSONA 3: JORDAN, GRADUATE STUDENT/YOUNG PROFESSIONAL



Jordan, recently graduated with a degree in marketing, is transitioning into the professional world while considering graduate studies. As an enthusiastic amateur photographer and social media aficionado, Jordan uses Zillow to find a living space that strikes a balance between work, study, and leisure, in a neighborhood popular among young professionals and students. She looks for rentals that offer quiet study areas, proximity to cafes and co-working spaces, and access to vibrant social scenes. Jordan's ideal housing solution combines affordability with the convenience of urban living, reflecting her ambition and lifestyle.



TECHNOLOGIES & ALGORITHMS

TECHNOLOGIES

Front End

React, Oauth2.0, TanStack Query(Context API - State Management), Axios, Zod (Validation)

Back End

Node JS, Fastify, MongoDB, Passport JS(Auth), Mongoose (ORM)

ALGORITHMS

KNN, Linear Regression



TEAM WORKING AGREEMENT

Team Working Agreement

Purpose of the agreement:

To complete Computer Science Project 1(CS 691) as smoothly as possible.

Name of the Project:

StudentHive

Terms of Agreement:

- All the team members are expected to attend the weekly meetings (Wednesday 8:00 PM) without fail.
- If in any case you are not able to join the call, you are expected to update the other team members regarding your absence.
- In the case of absence from a weekly meeting, you are expected to make it up before the next team meeting.
- The weekly meetings are held on zoom and any updates can be communicated through WhatsApp messenger.
- GitHub can be used to track and divide all our work.
- You are expected to be active on the WhatsApp messenger group chat for any updates.
- Work should be divided equally amongst the peers.
- Each team member should complete the work before the deadline. In case you are not able to do so, inform your peers so that they can divide the work accordingly. Failing to do so might lead to a decrease in the Team's grade.
- The Scrum Master is responsible for organizing the weekly meets, and everybody should be open to meet virtually more than once weekly if the situation demands it.
- Every team member is expected to be active in the weekly meetings, be productive and open to discussions and give a timely update on their part of the work.

Team Members:

- Bhanushali, Smit
- Gowdru Karibasappa, Sujan Siddarth
- Nandula Matham, Kiran Kumar
- Patel, Yashkumar
- Patel, Parth Animeshkumar
- Patel, Siddharthkumar Kamleshbhai
- Velamarthi, Rajkoushik



RETROSPECTIVE

WHAT HELPED US MOVE FORWARD



- Effective communication facilitated a thorough grasp of the project objectives.
- Collaborative teamwork streamlined the process of gathering requirements.
- We've compiled a list of technologies to employ, though there remains a need for deeper comprehension to ensure the development of a high-quality product.

WHAT HELD US BACK

- Meeting scheduling necessitates meticulous planning.
- Need to plan a backup when we encounter unexpected circumstances. In our case, Team member falling sick.
- There's room for enhancement in team participation levels.

WHAT SHOULD WE DO NEXT



- Schedule a thorough discussion on time availability to ensure proper coordination.
- Clarify deadlines to ensure tasks are completed according to the schedule.
- Begin working on the assigned activities promptly.

HOW COULD WE DO THINGS DIFFERENTLY



- Transition from using WhatsApp group chat to utilizing the Discord more frequently. This will provide exposure to office communication practices and the applications commonly used in professional settings.
- Foster a culture of mutual support and motivation within the team, allowing individuals who may lack certain skills the space and encouragement to learn and improve.

WIKIPAGE LINK

[HTTPS://GITHUB.COM/RAJKOUSHIKV/STUDENTHIVE/WIKI/WIKIPAGE](https://github.com/RAJKOUSHIKV/STUDENTHIVE/wiki/WIKIPAGE)

A series of white, thin, overlapping geometric lines on a black background, creating a complex, abstract pattern on the left side of the slide.

THANK YOU