

GUJARAT TECHNICAL UNIVERSITY

GOVERNMENT ENGINEERING COLLEGE MODASA

affiliated with GTU



A Project Report On

"STUDENT HELPER"

Prepared as a part of the requirements for the subject of DESIGN ENGINEERING – II A (3150001)

5th Semester (A3- Batch)

(Computer Engineering)

Submitted by

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during the academic year 2023-24.

Project Guide

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ABSTRACT

"Introducing 'Student Helper': Empowering Tomorrow's Leaders

In today's fast-paced educational landscape, students face a myriad of challenges that often hinder their academic progress and personal growth. 'Student Helper' is a comprehensive online platform designed to provide essential support and resources to students, ensuring they not only overcome these hurdles but thrive in their educational journey.

Our mission is to equip students with the tools they need to excel in their studies, foster self-improvement, and enhance their overall well-being. 'Student Helper' is more than just a website; it's a trusted companion that guides students through their academic life, offering an array of features and services:

- ✓ Study Materials: Access a vast library of study materials, including textbooks, notes, and interactive learning resources, tailored to various educational levels and subjects.
- ✓ Guidance and Motivation: Find expert guidance and motivational content to boost morale, ignite passion, and maintain a positive mindset throughout the learning process.
- ✓ Self-Performance Tests: Evaluate your progress with self-performance tests, quizzes, and mock exams that help identify strengths and areas for improvement.
- ✓ Doubt Solving: Seek solutions to your academic doubts with the help of an active online community and experienced educators who are readily available to provide assistance.
- ✓ Overcoming Distractions: Discover strategies and resources to overcome distractions and maintain focus during your study sessions.
- ✓ Effective Time Management: Learn the art of time management to optimize your productivity and create a healthy work-life balance.
- ✓ Study Strategies: Gain access to proven study techniques and strategies that cater to diverse learning styles, ensuring efficient and effective study sessions.
- ✓ Communication Skills: Enhance your communication skills, enabling better interactions with peers, teachers, and future employers.

'Student Helper' is more than just an educational resource; it's a platform that cares about the holistic development of students. We understand the challenges you face, from distractions to a lack of motivation, and we are here to support you every step of the way.

Join us on this transformative journey towards becoming a better student, a more effective learner, and a well-rounded individual. With 'Student Helper,' success is not just a destination; it's a way of life. Embrace the future of education and unlock your full potential with 'Student Helper'."

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INTRODUCTION

In the dynamic realm of education, students often grapple with a multitude of challenges, from battling distractions and seeking motivation to coping with communication barriers and time management dilemmas. 'Student Helper' emerges as a beacon of support and empowerment, designed to aid students in their quest for success. This online platform is not just a website; it's a dedicated ally, offering a myriad of resources and services to ensure that students not only conquer these obstacles but also flourish in their academic endeavors. At 'Student Helper,' we are committed to nurturing the well-rounded development of students, providing an extensive array of tools, guidance, and inspiration to foster self-improvement, boost academic achievement, and cultivate resilience. Join us in this transformative educational journey, where 'Student Helper' serves as your steadfast companion on the path to becoming a more confident, motivated, and accomplished student."

OBJECTIVES OF THE PROJECT:

- 1. To offer comprehensive guidance and support to shape the future of our next generation.
- 2. To enhance students' presentation skills, enabling them to communicate effectively.
- 3. To provide essential motivation to students who may be disheartened by their academic journey.
- 4. To boost users' time management abilities for improved productivity.
- 5. To enhance academic performance by monitoring progress and conducting tailored assessments to meet individual needs."

EVALUATION OF IDEA

Our project consists of many small components and by merging the all components we are having a big idea in our hands. As per our group discussion we decided first to meet few seniors, some fellow batchmates, pass out graduates and school – High school students. By meeting them we ask them few questions related to their career.

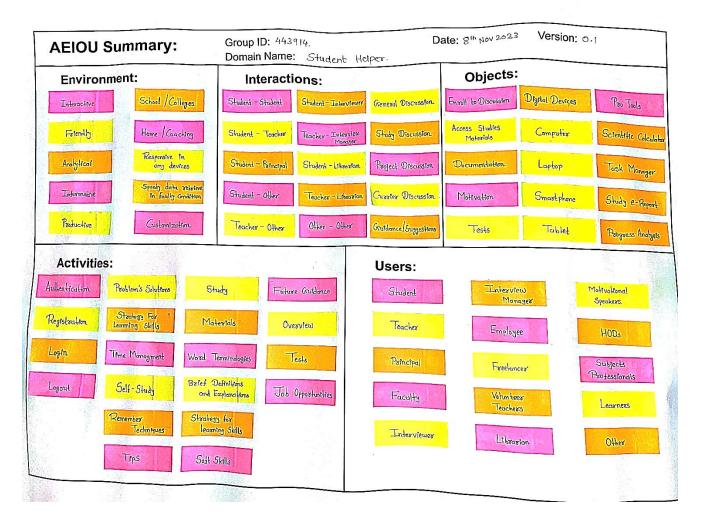
We observed that 75% - 80% of the students are not willingly persuading their streams. Some of them are not even concerned about this topic and some of them are not able to make a right choice.

So, by observing the situation of the surrounded fellows we came out with this idea for make this domain / project. The actual idea is to resolve the problem the students are facing in their career, to motivate them to score good marks, to participate in public speaking events as much as possible.

It addresses day to day problems faced by normal people and address them and helps to fix them. Which is what I believe is the goal of Design Engineering subject in our curriculum.

OVERVIEW OF THE CANVAS SHEETS

1. ACTIVITIES Canvas



The activities canvas consists of the following each element which necessary for the student's regular life. Activities such as interaction, presentation, word terminology, extraordinary skills, strategy making, time management etc. The key elements of the canvas are study materials, word terminology, tests, explanations, study related etc.

This canvas consists of the basic users of the project. The users which are facing issues in interaction, studies, career choosing etc. The elements of this section are students, volunteer teachers, librarian, principal, freelancer, teacher, motivational speakers, interview manager etc. The general observation of the canvas are developers, data administrators, marketing team, charted accounted, customer care etc.

1. Activity:

Authentication

- Login
- Logout
- Registration

Problem's Solutions

- Problems Discussions
- Interaction
- Solution of quarries
- Strategy for learning Skills
- How to Study our-self (self-study)
- Time Management
- Motivation
- Remember Techniques
- Tips

Study

- Study Materials
- Word Terminologies (Technical / Non-technical Dictionary)
- Brief Definitions and explanations.
- Extraordinary Skills (soft skills etc.)

2. Environment:

- Interactive
- Friendly
- analytical
- Informative
- Productive
- Helpful
- School
- College
- Home
- Coaching
- Library
- Responsive in any devices
- Dark/Light mode

- Customization
- Auto log out when accidently disconnection
- Private

3. Interactions:

- Student Student
- Student Teacher
- Student Other
- Teacher Other
- Other Other
- Student Principal
- Teacher Principal
- Principal Interviewer
- Principal Librarian
- Student Interviewer
- Interviewer Teacher
- Teacher –Interview manager
- Student Interviewer manager
- Student Librarian
- Teacher Librarian

4. Object:

Enroll in Discussion (Interactive cheats)

- Access Studies materials
- Documentation
- Test
- Access of Motivation.

Pro Tools

- Scientific Calc
- Task manager
- Reminder
- Make Study E-Report
- Progress analysis (by test or...)

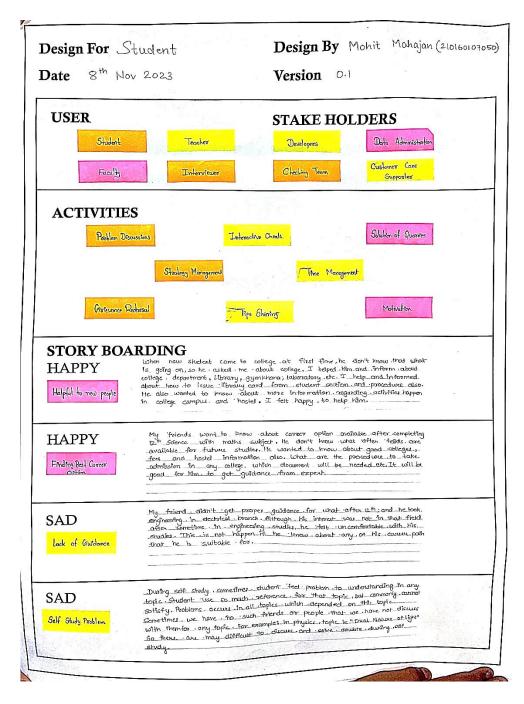
Any digital devices

- Computer
- laptop
- Tablet
- Smartphone

5. User:

- Student
- Teacher
- Principal
- Faculty
- Interviewer
- Interviewer manager
- Employee
- Freelancer
- Volunteer Teachers
- Librarian
- Other

2. EMPATHY CANVAS



It consists of the information about the stack holders of the project. Which consists of the developer, data administrator, checking team, customer care supporter etc. This canvas consists of the user's column also. In this column the users are students, faculty, teacher, interviewer etc. There is also another section which has stories related to the experience of the project. It is helpful to find new people to interact with new people, also help to find the best career for the user.

TEAM ID: 443914

User:

- Student
- Teacher
- Faculty
- Interviewer

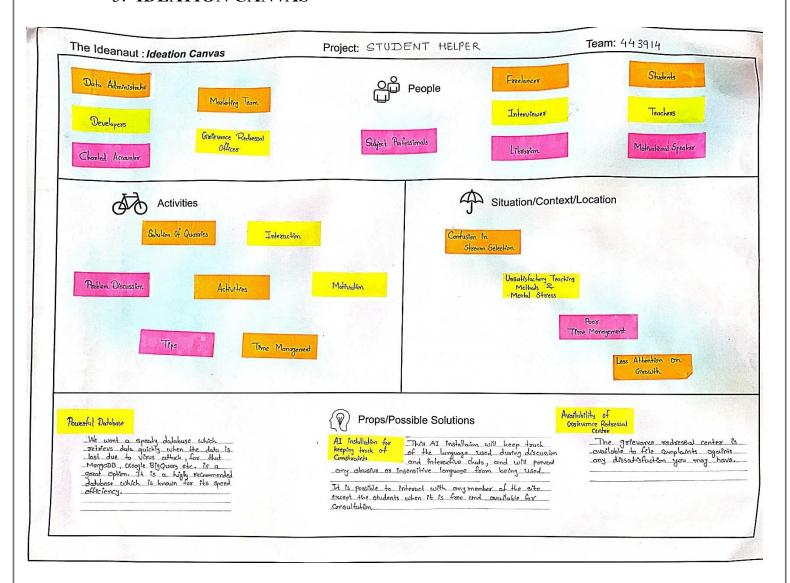
Stake Holders:

- Developers
- Data Administration
- Checking/Tester team
- Customer Care Supporter

Activity

- Problems Discussions
- Interactive Cheats
- Solution of quarries
- Strategy for learning Skills
- Time Management
- Motivation
- Tips Sharing

3. IDEATION CANVAS



This canvas has the data in which the surroundings are considered for the situation which are created unconditionally by the people surrounding us. These all situations are solved by the project. The situation consists of the confusion in choosing the stream for career, mental stress, poor time management, less attention on growth etc. And the possible outcomes of the situations are powerful database, AI installation for keeping track of constraints etc. It also has people section in which marketing team, developers, charted accountant, subject professionals, librarian, motivational speakers etc.

People:

- Data Administrator
- Developers
- Charted Accouter
- Marketing Team
- Grievance Redressal Officer
- Subject Professionals
- Freelancer
- Interviewer
- Librarian

Activities:

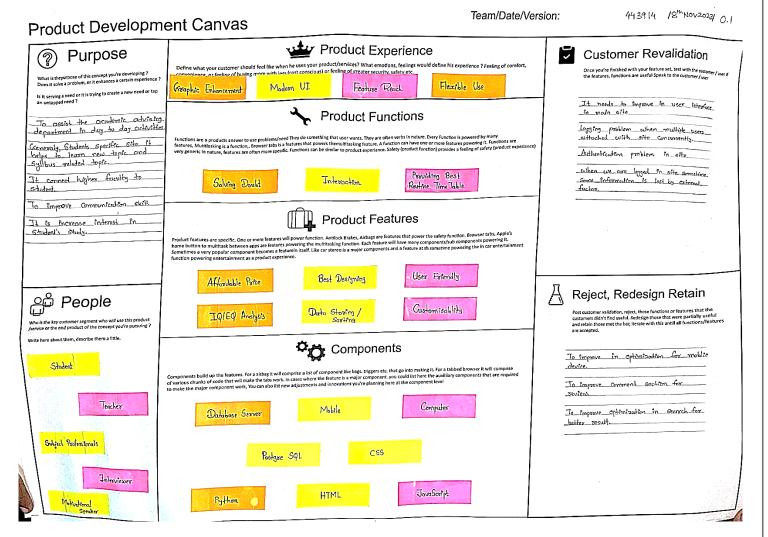
- Solution of questions
- Problem discussion
- Interactions
- Motivation
- Time management
- Tips

Situation/Context/Location

Student can find solution of:

- Customer in stream Selection
- Unsatisfactory Teaching Method & Mental Stress
- Poor Time Management
- Less attentions on Growth

4. PRODUCT DEVELOPMENT CANVAS



It's the closure of the phase-two, where our objectives are clear and ready to approach. What solution as over product should give, what features we need, how to function them properly in order to fulfill the requirements, surveying on our domain of buyers to reject/redesign/retain components of our product. Based on the customer reviews and validation, we add the notes accordingly and make changes in the application as needed.

Product Experience

- Graphic Enhancement
- Modern User Interface
- Features Reach
- Flexible Use

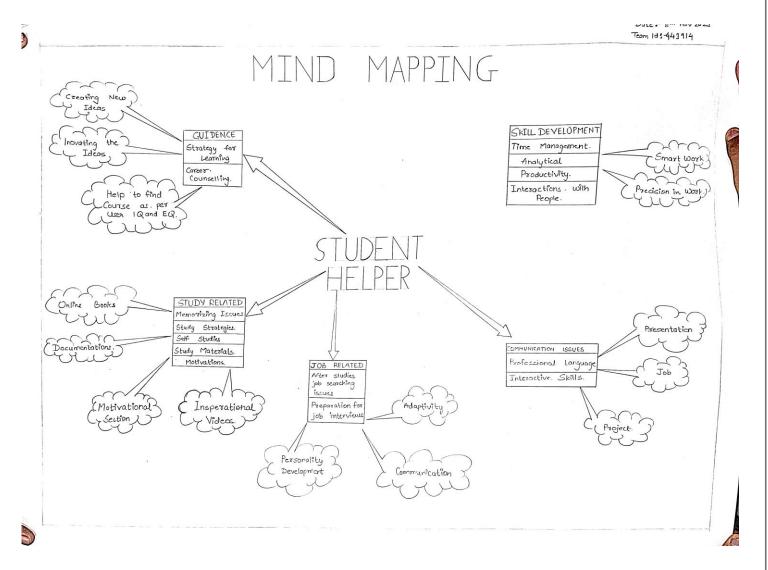
Product Functions:

- Solving Doubt
- Interaction
- Providing Tips to make time management etc.

Product Features:

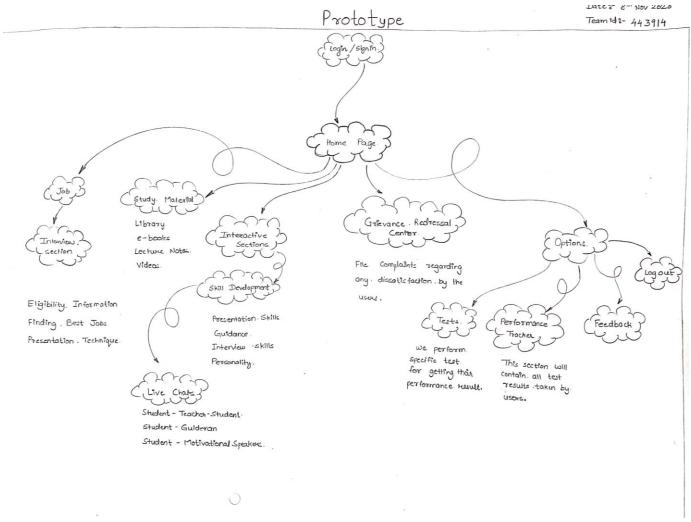
- Responsible
- User Friendly
- Customizability
- Data Storing/Exporting

5. MIND MAPING CANVAS



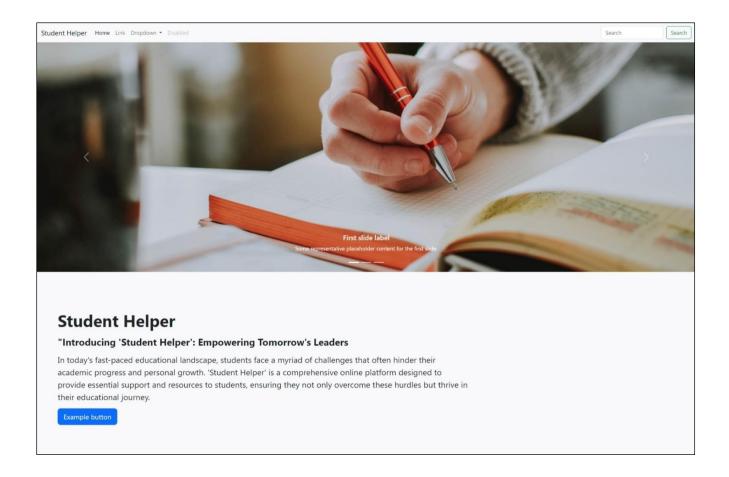
Mind mapping refers to a technique that designers and engineers use to express and generate ideas. All that mind mapping really is, however, is a way to get all the ideas in your head down onto paper. There is no right or wrong way to mind map. Here listed out all the roots of the project and also features and facility available in our project. In this canvas the section is study relate, job related, communication, skill development and guidance.

6. PROTOTYPE CANVAS



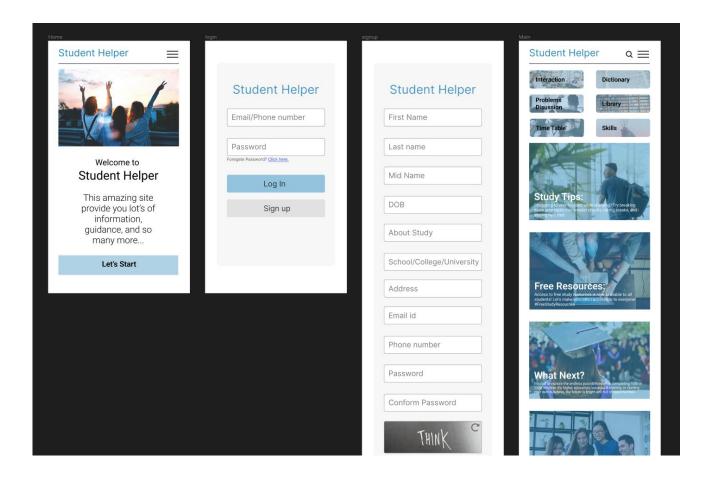
A prototype is an early sample, model or release of a product created to test a concept or process. Typically, a prototype is used to evaluate a new design to improve the accuracy of analysts and system users. It is the step between the formalization and the evaluation of an idea. Prototypes are a crucial part of the design process and a practice used in all design disciplines. From architects, engineers, industrial designers and even service designers, they make their prototypes to test their designs before investing in their mass production.

Home page



Our homepage is your gateway to a world of academic empowerment and personal growth. Designed with students in mind, 'Student Helper' offers a wealth of resources, guidance, and support to help you navigate the challenges of your educational journey. As you step into our digital campus, you'll find a rich tapestry of study materials, motivational content, self-assessment tools, a thriving community, and so much more.

Android app prototype:



Below is a sneak peek at our 'Student Helper' Android app prototype, meticulously crafted in Figma. This preview encapsulates the essence of what's to come: a user-friendly interface featuring the Home Page, Login Page, Registration Page, and a glimpse of the rich content awaiting you. The design seamlessly blends form and function, ensuring an intuitive and engaging user experience. Get ready to embark on a seamless educational journey with our app, where every screen has been thoughtfully designed to make your student life more inspiring and productive.

SCOPE OF THE PROJECT

The 'Student Helper' project encompasses a wide range of features and services aimed at addressing the multifaceted challenges faced by students in their educational journey. The project's scope includes, but is not limited to:

- ✓ Educational Resources: Providing access to an extensive library of study materials, including textbooks, notes, and interactive learning resources, catering to diverse subjects and educational levels.
- ✓ Guidance and Motivation: Offering expert guidance, inspirational content, and practical advice to foster a positive mindset and personal growth.
- ✓ Assessment and Improvement: Facilitating self-performance tests, quizzes, and mock exams to assess and enhance academic progress.
- ✓ Doubt Resolution: Creating a supportive online community and engaging educators to assist in resolving academic queries and challenges.
- ✓ Productivity and Time Management: Offering strategies and resources to improve time management skills, aiding in maintaining focus and achieving a balanced work-life approach.
- ✓ Study Strategies: Providing proven study techniques and strategies to suit various learning styles and promote efficient study habits.
- ✓ Communication Skills: Enhancing interpersonal and communication skills to facilitate better interactions with peers, educators, and future employers.
- ✓ Performance Tracking: Enabling students to monitor their academic performance through grade tracking and personalized assessments.

The 'Student Helper' project is committed to addressing the holistic needs of students, offering a diverse array of resources and services to empower them in their educational endeavors. It aims to be a comprehensive, all-encompassing platform for students seeking academic excellence and personal growth."

LITERATURE REVIEW

In the current landscape, several similar projects and platforms exist; however, a thorough examination reveals a unique proposition in the 'Student Helper' project. While alternatives like Biju's serve educational purposes and platforms like Pep Talk focus on motivational content, and I Dream Career app specializes in career counseling, and social media facilitates worldwide text and video chats, none of these solutions offer the comprehensive range of services available in one unified location, all provided free of cost.

For instance, Biju's is well-known for its educational resources, while Pep Talk excels in motivational videos, and the I Dream Career app is dedicated to career counseling. Social media platforms enable global text and video chats. In contrast, the 'Student Helper' project consolidates all these features into a single, user-friendly interface, making it a one-stop solution for students. Additionally, we offer a well-organized library of study and research materials, further enhancing the project's value and utility in the educational landscape."

CONCLUSION

The 'Student Helper' project has been an invaluable learning journey for all team members. It has allowed us to engage with and address real-world challenges that people encounter in their daily lives, highlighting the complexities and nuances of devising effective solutions. This project has guided us through various phases of project development, offering a genuine glimpse into the realm of software engineering and web development.

The experience of working on this project, along with the exhilaration of confronting and resolving a diverse array of issues and challenges, has immersed us in the developer's world. Through this endeavor, we gained insight into the intricacies of designing a professional website, and we've also learned from our mistakes, providing us with valuable experience and preparing us to tackle the challenges we may encounter in our future professional careers."

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