

Design Thinking and Innovation: Project Milestone 1 - 2021 Batch

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***Required**

Project Info

Project Title *

It should be catchy, Self-describing and clear. This Question Carries One Mark.

Cab Booking System

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Describe Your Project *

This is like answering someone's question. "What are you doing as a Design thinking and innovation Project" or "What is your Project" or "Can you tell something about your Project". Please write a Minimum 500 and Maximum 1000 Characters. This Question Carries One Mark.

We aim to create a platform that enables clients to schedule and control taxi rides is known as a taxi booking system. Customers can typically enter their pick-up location, destination, and chosen journey time using an internet platform, smartphone application, or phone reservation system. In order to match the customer with a taxi that is available, the system first notifies the driver of the trip's information and pickup location. Customers can track cab positions in real-time, and the technology also handles bookings and payments. For cab businesses looking to improve customer service and streamline operations, the technology also offers insightful analytics. Overall, the system for booking and managing taxi rides makes it

Why team has chosen this project? *

It basically reasons for your choice of this project from so many other options that are available. How it aligns with your interests, personality, strength, skills, ambitions or passion. Please write a Minimum 500 and Maximum 1000 Characters. This Question Carries One Mark. This can not be same as other teams.

Our team selected this project based on a variety of elements, including the initiative's potential effect and the team's talents and experience.
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Our team is made up of individuals with backgrounds spanning from full stack programming to data science. They have a wide range of talents and interests.

The team members' diverse backgrounds, talents, ambitions, and ideals all contributed to the final product.

An additional factor that could influence the project decision is the potential for professional progression. A group of people may decide to

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What Problem(s) it solves. *

What issue or need it addresses. Please write Minimum 500 and Maximum 1000 Characters. This Question Carries One Mark.

Comfortable: Without having to flag down a cab on the street, customers of a taxi booking system can make reservations from the convenience of their home or place of business.

Reliability: A taxi booking system makes it possible for users to acquire a trip whenever they need one by removing the risk and unpredictability involved in hailing a cab on the street.

Safety: Features like GPS tracking and driver certification are frequently seen in taxi booking systems to increase user safety.

Efficient delivery: Delivery efficiency is increased through taxi booking systems, which also decrease passenger wait times and raise service standards overall.

Better data management: Taxi booking systems offer insightful information on customer activity, driver performance, and business operations in general, assisting operators in making decisions.

Savings measures: Taxi booking systems help reduce operating costs for

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Who will be the potential clients/customers/users/startups/beneficiaries of the project. Describe appropriately. Why you think they are your target audience?

Be specific so that the prospective target for your project is clear. Please write minimum 500 and maximum 1000 Characters. This Question Carries One Mark.

The primary benefactors of taxi booking systems are taxi firms. You may boost production, decrease downtime, and manage your operations more effectively with the aid of this technology. Additionally, it offers insightful information that enables you to make better decisions, enhance business processes, and better serve clients.

End users of the taxi reservation system are passengers. The technology makes it simple to schedule and manage rides, making it simple to get from point A to point B.

Startup: A taxi booking system can help startups in the transportation or mobility industries because it gives them a platform to launch and grow their businesses. Additionally, the system can offer useful information and insights that support your decision-making as you work to enhance your offerings and broaden your market.

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What will be the innovation in this project? *

Write at least Three Innovations. You may be proposing a new technology model, new paradigm or framework to solve the problem. Please write Minimum 1000 Maximum 2000 Characters. This Question Carries two Mark.

User experience: The system can be made to have an intuitive user interface that makes it easier for customers to book and manage rides and for taxi operators to run their businesses. This includes functions like immediate ride confirmation, several payment choices, and real-time ride tracking.

Technology integration: To enhance the entire experience for both customers and taxi businesses, the system can be integrated with cutting-edge technologies like artificial intelligence, machine learning, and predictive analytics. Features like real-time trip matching, dynamic pricing, and personalized recommendations may be part of this.

Automation: By incorporating automation features into the system, manual intervention is reduced and the booking process is made more effective. This includes tools like journey tracking, driver assignment, and auto-dispatch.

Sustainability: By encouraging the use of environmentally friendly modes of transportation and lowering the carbon footprint of transportation services, the system can be created with sustainability in mind. This can include options for eco-friendly driving and real-time emissions monitoring.

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How it will be different from similar existing solutions. *

Take at least three existing applications which are most closer to your project proposal and how you will be differentiating and bench marking with these three. You have to specifically name those three applications and compare. Min 1000 Character and Max 2000 Characters. This Question Carries Two Marks.

First, compared to traditional fatigue monitoring systems, driver drowsiness detection technology is more accurate and trustworthy. This multi-modal approach provides a more complete and precise picture of the driver's eye movements and head role.

Second, compared to conventional driving force alert systems, driving force sleepiness detection technology is more user-friendly. Driving force sleepiness detection technology is totally automatic and operates in the background, in contrast to conventional motive force alert structures that require drivers to manually activate the system. This makes operating the equipment simpler and more easy for drivers because they don't need to do any additional procedures.

Third, motivating factor Compared to traditional driving force warning structures, the sleepiness detection era offers a more comprehensive answer. Driver sleepiness detection technology provides a comprehensive response that includes quick and strong points to encourage the driver to take a break, relax, or get some fresh air, in contrast to conventional driver

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What makes it challenging enough to be chosen to be done in four months (Jan - May) *

There are two parts to the question. First, you need to articulate that what perspective of the project is challenging enough that makes it worthwhile to do as a full semester project. Second is whether it has the proportionate scope of being done in Four Months. (and can not be done in two months or will not require more than four months). Minimum Character Count is 500 characters and Maximum 1000 Characters. This Question Carries One Mark.

Complicated:

Numerous elements, including real-time GPS tracking, payment processing, and client management, are included in a taxi booking system. It is challenging to design systems quickly while maintaining high standards of security and dependability due to this complexity.

Integration of Services from Third Parties:

Integration with other services, like payment gateways, SMS services, and mapping APIs, is frequently necessary for taxi booking systems. Your project may require extensive effort and complexity to integrate these platforms.

User encounter:

Any cab booking system's user experience is crucial to its success, and designing an intuitive and user-friendly user interface can be difficult, especially in the near term.

Testing and quality control:

It's crucial to properly test the system and address any issues that are

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How you will measure the success/outcome/quality of your project *

What will be your parameters of achievement in your project and Why? Here you are specifying the assessment criteria of your project at the final evaluation time. Minimum 500 Characters and Maximum 1000 Characters. This Question Carries One Mark.

User Satisfaction: Surveys, internet reviews, and client comments can all be used to gauge user satisfaction. The goal is to gauge customer satisfaction with the system and find areas for development.

Driver Satisfaction: Driver happiness may be quantified by polling drivers and gathering feedback, just like user satisfaction. We can utilize this information to enhance our systems and make their jobs more appealing by getting a better understanding of the working environment and experiences of our drivers.

Sales and Profitability: By examining the revenue earned and the related operating costs, one may assess the financial success of a taxi driving system. Making ensuring the system is long-term profitable is the goal.

Booking Efficiency: Efficiency of the booking process can be evaluated by keeping track of how long it takes to make a reservation, how many reservations fail, and how many reservations are cancelled. Enhancing the

Your response is too large. Try shortening some answers.

Resources required for the project and the feasibility of their availability as per the plans *

May be software, Hardware, Datasets, Funds, Equipment etc. Minimum 300 Characters and Maximum 1000 Characters. This Question Carries One Mark.

Department: A technical team with knowledge of software development and database design is needed to build and manage the system.

Hardware: A server, a database, and mobile devices are normally needed for a taxi booking system. B. Networking hardware, data storage systems, and GPS gadgets.

Software: To administer the user interface, database, and mobile app of a taxi booking system, software is required. Large volumes of data must be handled by software, which must also deliver real-time updates and expand for future expansion.

Data: Data such as details about customers, drivers, cars, and routes, is a vital resource for taxi booking systems. Data about traffic limitations, traffic patterns, and weather conditions may also be needed by the system.

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If you are a team of 2 or more then clearly define responsibilities and * how each member should be assessed differently

It should be by Name and Roll No of each Member. Please write a Minimum 500 and Maximum 1000 Characters. This Question Carries One Mark.

Project Manager's responsibility is to oversee the entire design and set deadlines to ensure systems are completed on time.

Software Developer's responsibility is to design and develop the software factors of hack booking system similar as stoner interface . Also, they will debug the program after testing.

Database Developer's responsibility Designing and managing a database for a hack reservation system. Make sure your database is secure, scalable, and able of handling large quantities of data.

Software Tester's responsibility is to test the code and then find errors which can arise during execution of the program.

Researcher's role is to research about the project and

Aarsh Rana (E21CSEU0776) is handling project management and software development.

Siddhant Gautam (E21CSSEU0613) is handling software development and debugging.

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Short and long term planning with detailed and logical steps and timelines. *

Please write a Minimum 1000 and Maximum 2000 Characters. This Question Carries One Mark.

Plan for the near future: Compiling and evaluating requirements Meetings with stakeholders are part of this process to collect requirements and comprehend their demands. It will take a week or two to finish. Software design: The software developer must provide a thorough user interface, database, and mobile app for the taxi booking system. He'll need two to three weeks for this. Data structure, security, and performance optimization must all be included in the database design that a database administrator must produce. It will take a week or two. Development: The software components of the taxi reservation system should begin to be developed. The database implementation should be started by a database administrator. Database needs 6–8 weeks to do this. Test: To make sure their software and databases are dependable, secure, and in compliance with standards, teams must carefully test them. It'll take two to three weeks. Mission: Stakeholders should receive training on using the taxi booking system and it should be used in production. It will take a week or two. Long-term strategy Maintenance: To be secure, dependable, and effective, taxi reservation systems must undergo ongoing maintenance. This ought to go on. Improvement: To find areas for improvement and implement modifications to increase functionality, the team should

You may upload a image of Time Chart.

Maximum file size is 10 MB. It should be a image.



time chart.jpg



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Evidence/literature/research/survey etc. in support of the hypothesis * or idea to be successful. (Local/National/International Context)

What makes you believe that it will be successful. If there are some validation, supporting theory or literature available , then please cite it here. You can also give some references in this answer that have been used to build up your proposal.Please write a Minimum 2000 and Maximum 4000 Characters.This Question Carries Three Marks.

Your response is too large. Try shortening some answers.

The ease of use, trustworthiness, cost-effectiveness, safety, and stoner experience are the main determinants of a hack reservation system's success. There is a lot of evidence to back up the idea that these qualities, both in the local and global contexts, are what make similar systems successful. Convenience Drug users can request a lift at any time, from any location, using a hack reservation system, eliminating the need to personally hail a hack. There is evidence that doing this will make stoners more comfortable and shorten wait times. As an example, a survey by the National Federation of Independent Business (N FIB) found that 63 percent drug addicts prefer to book a ride through a smartphone app to flagging one down on the street. Have faith in your ability Drug users can directly estimate delay times and develop well-informed evaluations thanks to hack reservation systems that track and cover the vacuity of hacks in real-time. According to a study by the University of California, Davis, drug users who experienced trust ability in hack services were more inclined to use the service again. This trust ability has been proven to enhance stoner satisfaction and repeat operation. Cost-effectiveness As they commonly use a dynamic pricing model that adjusts charges based on demand and force, hack reservation systems typically provide more affordable rates than traditional hack services. A study by the University of Cambridge showed that app-grounded hack services were over to 25 less expensive than traditional hack services, demonstrating how this lowers prices for drug users. Safety When compared to traditional hack services, hack reservation systems provide enhanced safety features including in-app GPS tracking, driver conditions, and in-app emergency contact options, which give drug users a false sense of security. A survey conducted by the taxi app Uber found that 81 percent women felt safer using it than regular hacks. Stoner experience Hack reservation systems provide a simple and user-friendly experience for stoners, enabling them to request a lift with just a few keystrokes on their mobile device. This has been verified by a check by the IT company to raise stoner satisfaction. When compared to traditional hacking services, app-based hacking services received higher overall satisfaction ratings, according to the power that put them up. In conclusion, there is a lot of evidence to support the success of hacking reservation systems, both locally and internationally. Similar elements including ease of use, trustworthiness, affordability, safety, and stoner

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Risk Analysis (What are the factors which pose risk of failure of your project and risk of not completing your project by deadline) *

How you are taking care of these risks so that they can be avoided. Please write a Minimum 500 and Maximum 1000 Characters. This Question Carries One Mark.

Risk factors for the failure of taxi reservation systems include:

Competition: The market is projected to grow more competitive as cab booking systems gain popularity, which will lead to lower profit margins and a smaller market share.

Taxi booking services are governed by a number of rules and regulations, such as privacy laws, security legislation, and licensing requirements.

Technical problem: Technologies including smartphone apps, GPS systems, and payment platforms are used by taxi booking systems. The use and happiness of a product can be negatively impacted by technical problems including server outages, app crashes, and payment difficulties.

Data security: The taxi booking system gathers and saves customer payment and personal information. Unauthorized access to sensitive data

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Give Names and emails of Three Persons with whom you have discussed the details of the project and what was their reaction/suggestion.

*

It is important to converse and take perspective on your proposal from others. One person each from categories (Industry, Your parents, friends, teachers). Please write a Minimum 500 and Maximum 1000 Characters. This Question Carries One Mark.

1. Dr. Vikas Jain (vikas.jain@bennett.edu.in): He is an assistant professor at Bennett University and our mentor as well. He told that it is a good project and the improvements we can do over the traditional system of cab booking. We discussed the tech stack and technologies.
2. Divyansh Gupta (e21cseu0778@bennett.edu.in): He is our batchmate and friend who has good knowledge of data science. He had mixed reactions as this project was already made as we are using the traditional cab booking systems. But as soon as we told him about the new improvements he said it would be a better option.
3. Surendra Gautam (sgautam72@gmail.com): He is one team member's uncle and he is an engineer in the US. He has made many industry level projects and said this would be a good learning experience for the team members and will be a good alternative to traditional system if made under



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List down the Ethics, Privacy, Moral and Legal issues related with the * project

Even if there are no issues, then describe how it fulfills all the norms. Please write a Minimum 500 and Maximum 2000 Characters. This Question Carries One Mark.

Ethical Issues: Driver drowsiness can lead to a number of ethical issues, such as neglect of the duty to ensure one's own safety and the safety of others on the road, and the choice to engage in risky behavior that could harm others.

Privacy Issues: Monitoring systems for driver drowsiness may collect sensitive personal information, such as heart rate, eye movements, and driving patterns, which could be used for nefarious purposes if not properly secured.

Moral Issues: Driver drowsiness can be seen as a moral failure, as it can lead to dangerous and irresponsible behavior that can harm others. It also raises questions about personal responsibility and the importance of taking care of one's own health and well-being.

Legal Issues: Driver drowsiness can result in accidents and injuries, which can lead to lawsuits and criminal charges. The use of monitoring systems

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