**DTIL PROJECT REPORT**

**ON**

**Product and Services for Transport Hub**

**Submitted By ,**

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**(F.Y. B.Tech CSE / CSE (Computer Science and Engineering**

**Guide**

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**In the academic year 2024-25**

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**CERTIFICATE**

**This is to certify that**

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**( F.Y. B.Tech Computer Science and Engineering )**

**Have successfully completed their DTIL project report**

**on**

**Product and Services for Transport Hub**

**Towards the partial fulfillment of Bachelor’s Degree**

**In Computer Science Engineering**

**During the academic year 2024-25**

**Prof. Pravin Chokakkar Dr. Ajit Muzumdar**

**Acknowledgement**

We sincerely thank everyone who supported us throughout this project. First, we are grateful to our prof. Pravin Chokakkar for their guidance and encouragement, which helped us stay on track and improve our work.

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We also appreciate the assistance from the lab staff , who shared their time and suggestions when we needed them most. Lastly, to our incredible team—thank you for your innovation, hard work, and shared vision. Together, we’ve turned ideas into reality.

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**Report**

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**Report**

**Topic Selection**

**Some cars have drowsiness detection systems that can automatically stop the vehicle if the driver is detected to be asleep. These systems can help prevent accidents caused by drowsy driving, which is a factor in about 20% of road accidents.**

**Mind Mapping**

Mind mapping is a visual method of organizing information and ideas. It involves placing a central idea or topic in the middle of a page and branching out to related subtopics. Each branch represents a specific aspect of the central idea, and these branches can further divide into smaller, more detailed branches.

Mind map is very useful method it helps us to find key points by segregate our project key features

In mind map we make six categories:-

1.Inventory management and procurement

2.Documentation and finance used in foreign trade

3. Planning and arranging transport

4. Telematics

5. Shipping goods

6. Warehouse and Storage

**Journey map**

A journey map is a visual story of how a user interacts with a product, service, or system. It shows the steps they take, what they experience, and how they feel at each stage. There are two types of journey map we make first journey map for commuters and second is journey map for product owner. It helps you understand the user's needs, problems, and emotions so you can improve their experience. mapping this journey, you can see where things go wrong and fix them to make the process smoother. It’s like putting yourself in the user’s shoes to understand their experience better. In graph we have highlighting key Excitement , Curiosity , Apprehension , relaxation ,trust, satisfaction, relief, gratitude. By this activity we can see where the end users face difficulties .

**5W1H Activity**

**5W1H is a problem-solving and planning tool that helps you analyze a situation or idea by asking six key questions: Who, What, Where, When, Why, and How. It’s a simple and structured way to gather information, find solutions, or plan effectively.**

**Meaning of each Questions :**

**1. Who:** Identifies the people involved. Example: Who is the target audience ?

**2. What:** Defines the problem, goal, or task. Example: What needs to be done?

**3. Where**: Locates the place or context. Example: Where will this product be used?

**4. When**: Determines the time or deadline. Example: When should this be completed?

**5. Why:** Explains the purpose or reason. Example: Why is this solution needed?

**6. How:** Focuses on the method or process. Example: How will we implement this idea?

**Theory of Prioritization**

We researched common problems, such as driver distraction and traffic congestion, and worked on finding solutions. We explored how technology, like real-time monitoring systems, could help reduce accidents caused by drivers not keeping their hands on the steering wheel.One major issue we focused on was the risk caused by drivers taking their hands off the steering wheel for extended periods. We recognized this as a key factor contributing to accidents, especially at high speeds or in crowded traffic.

**Problem Statement**

**steering wheel poses a great threat to the safety of the roads. Most of the existing safety mechanisms are not real-time automated to notice when the driver takes away his or her hands from the steering wheel for long periods of time. This increases the likelihood of accidents at high speeds or in congested traffic.**

**SCAMPER**

**SCAMPER is a simple way to think creatively and come up with new ideas or improve something that already exists. It helps you ask different kinds of questions to make things better.**

**SCAMPER stands for:**

**Substitute:-**

**1. Substitute**

**2. Combine**

**3. Adapt**

**4. Modify**

**5. Put to another use**

**6. Eliminate**

**7. Reverse**

**We used Substitute and Combine tools for our topic**

**Substitution :** Integrate the auto car stop feature with other safety systems like lane departure warnings adaptive cruise control or pedestrian detection system combine radar and camera systems for more reliable detection mechanism

**Combine :** Integrate the auto car stop feature with other safety systems like lane departure warnings adaptive cruise control or pedestrian detection system combine radar and camera systems for more reliable detection mechanism

**Persona**

A persona helps by giving a clear picture of the end user, so teams can design products or services that meet their needs. It keeps the team thinking about what the user wants, not just what the team thinks is cool or useful.

Persona that gives us information about end user of our project , end user’s information such as the background , challenges faced by user , motivation , doubt/fear ,and aspiration . End users are the people who will who will use the project . We can understand their needs and requirements so we can solve their problems as their needs . their problem will be solved through our project .

In our topic product and services for transport hub , end users are Commuters and Product Owner .

**Conclusion**

**Our project highlights the need for innovation products and services to improve user experience , enhance safety , and streamline operations. By focusing on real time monitoring systems, user-friendly designs , and advanced technologies , we aim to address the challenges of congestion , accessibility , and safety .**







