

MVP – MINIMUM VIABLE PRODUCT Document

(University Admit Eligibility Predictor) – IBM Nalaiya Thiran

Team ID:

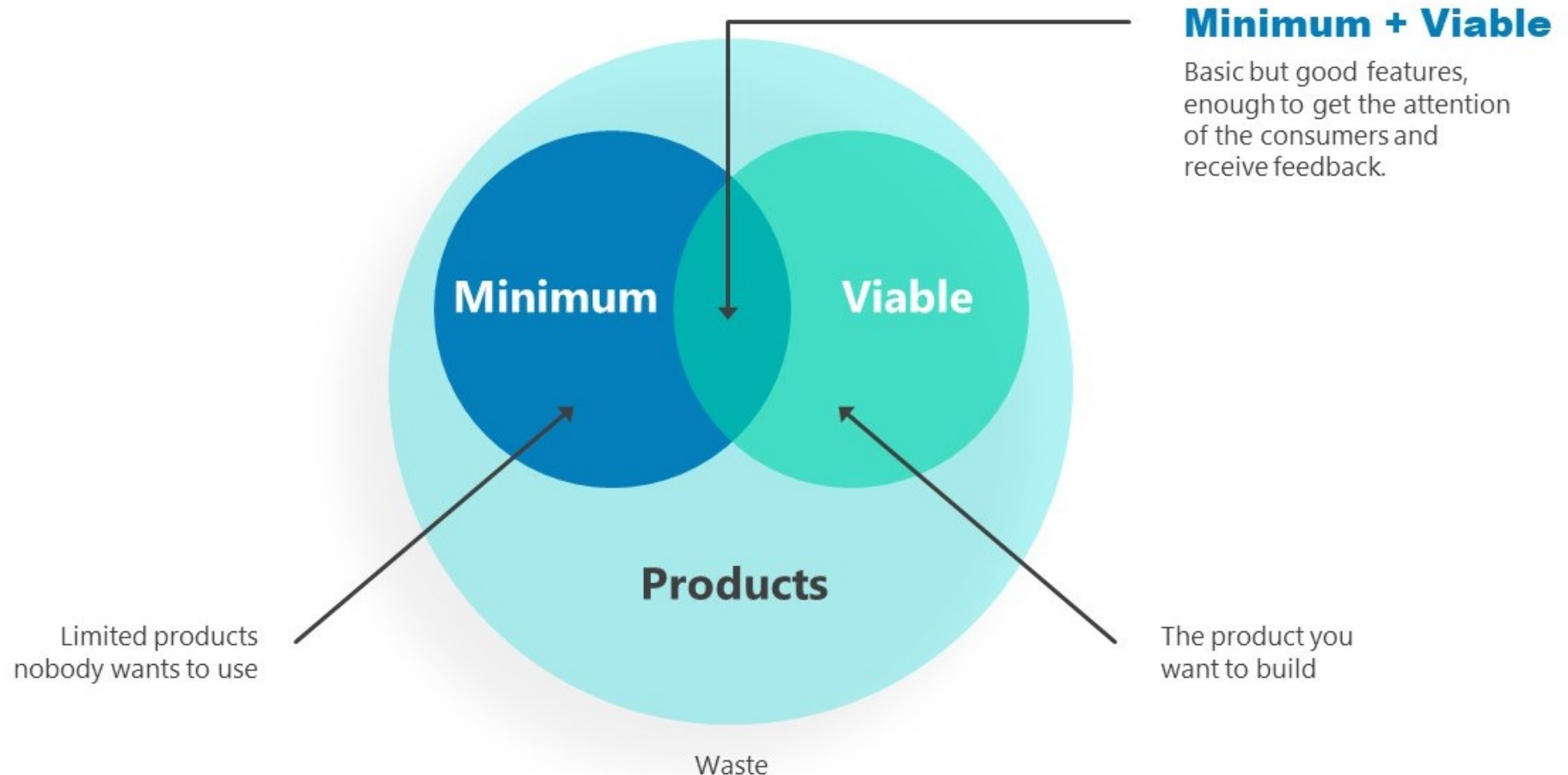
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What is MVP ?

A Minimum Viable Product (MVP) is a version of your product which includes the features that will allow you to release the product to market by solving a core problem for a set of users. The purpose is to provide immediate value, quickly, while minimizing development costs.

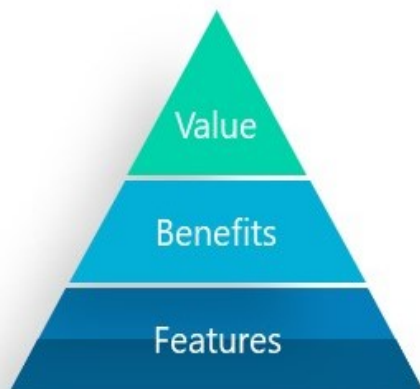


CREATING AN MVP

To accomplish this MVP there are three steps to follow:

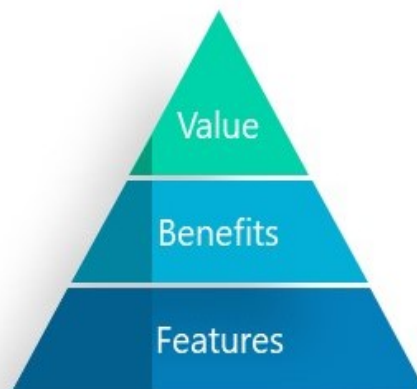
- Understand The Business Needs
- Find The Opportunities
- Decide What Features To Build (Prioritization Matrix)

Not Good



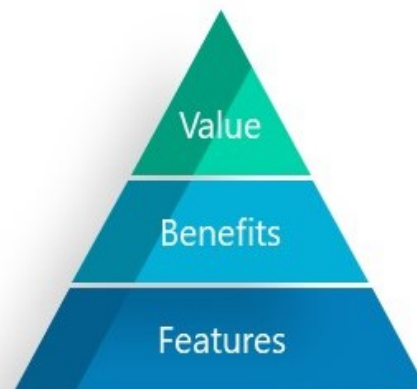
When you ask yourself
"which features can I build"

Bad



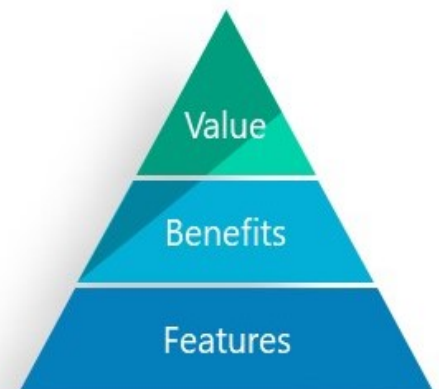
When you ask yourself
"what are the minimum features to provide at least some value"

OK



When you ask yourself
"what version of my product can I build that captures most of the value"

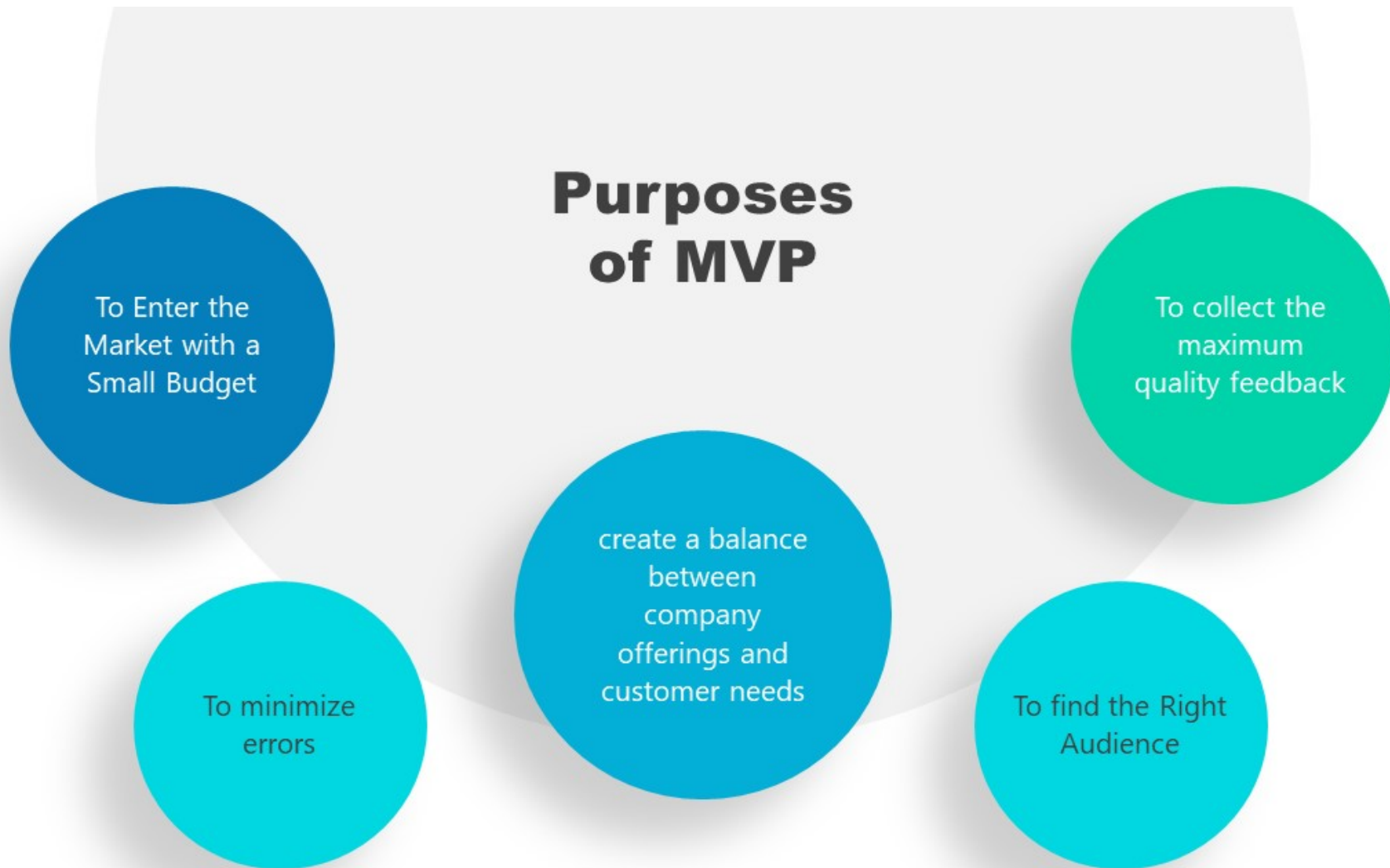
Real MVP



When you ask yourself
"how can I validate my value proposition"

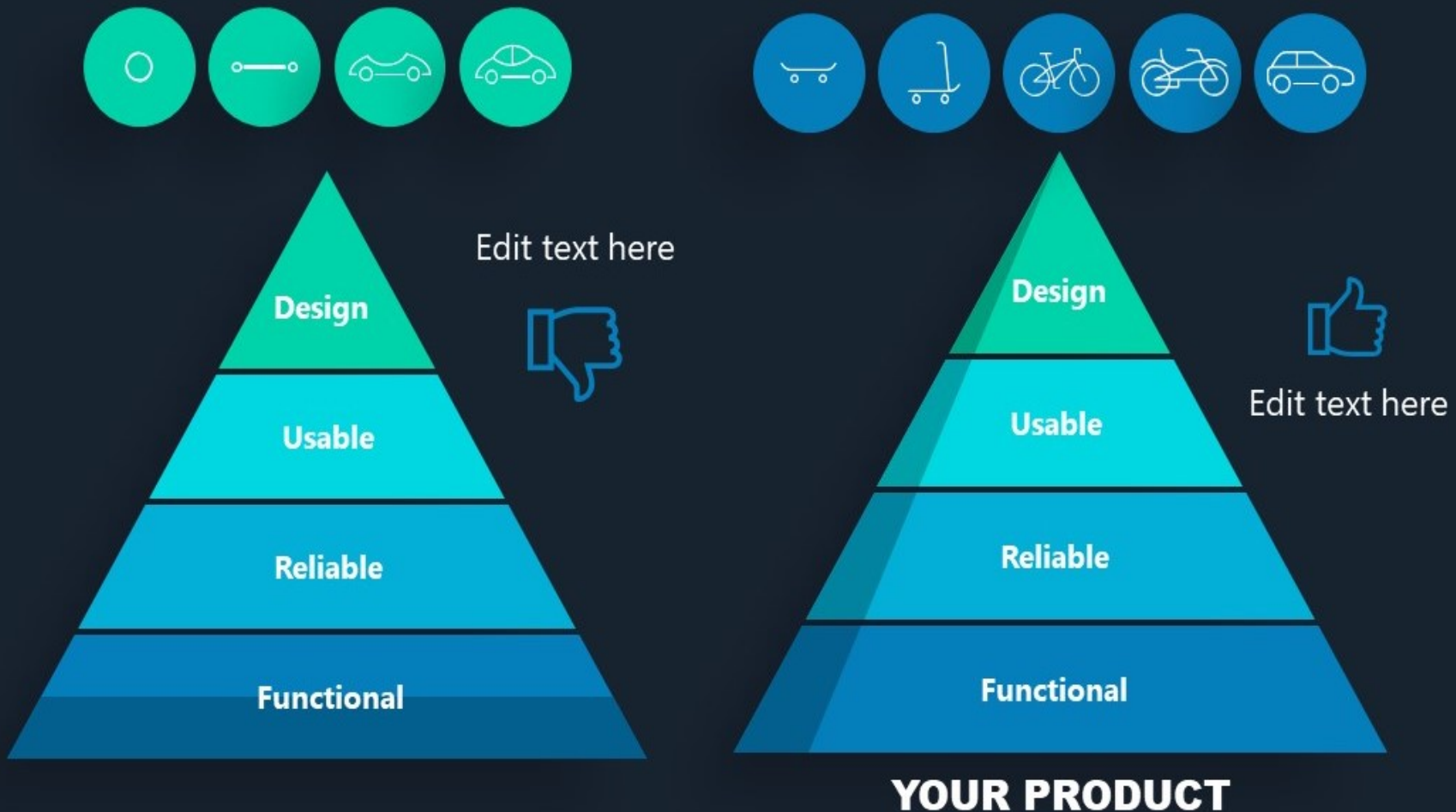
PURPOSE OF MVP

The primary goal of the MVP is to always minimize time and effort wasted by testing how the market reacts to your idea before building the complete product.



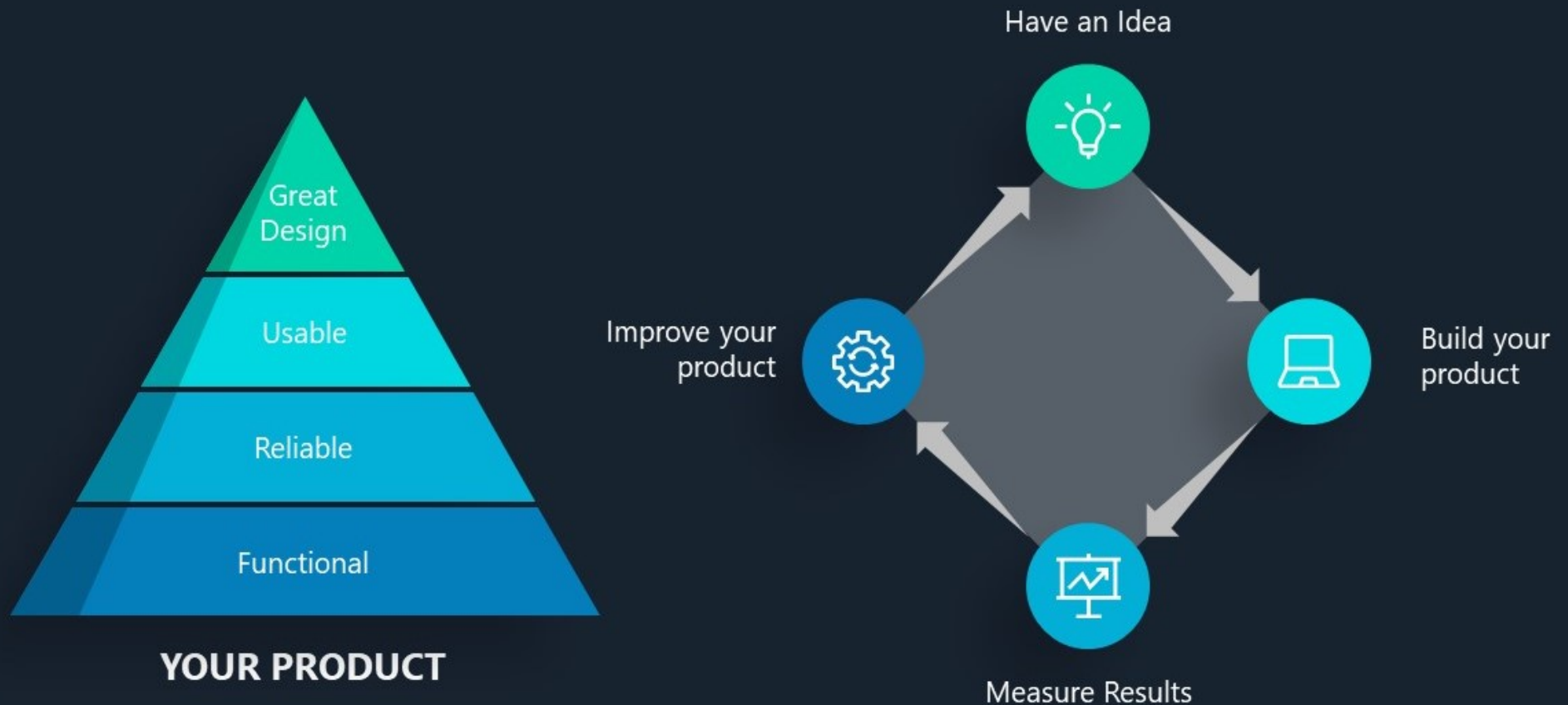
HOW MVP NEEDS TO BE DESIGNED

The process of designing should not be focused only on the base level of function, but instead needs to have a focus on all the levels of the MVP product.



CREATING MVP FOR THE PRODUCT

The 4 metrics needs to followed for the designing of the MVP and they needs to follow this policy to make it a better product.



MVP PLAN

UNDERSTAND THE BUSINESS NEEDS LONG – TERM GOAL

Determine the long-term goal and write it down. The goal should be driven by a problem that needs to be solved. You want to answer the simple question: Why are we doing this project?

- The University Eligibility Predictor project is been designed for students wanting to pursue higher education or any courses in Medical, Engineering, Arts etc...
- It is also difficult to analyze every college to get to know about the cut-off for each of the courses that are been provided by them based on the board exam scores and any other competitive exam scores.
- The students pursuing their 12th grade are in a state of confusion about the selection of the colleges based on the marks received by them. Their prediction of getting a better college sometimes leads to a wrong calculation and leads to missing the opportunities of good colleges.
- The continuous funding from the necessary resources needs to be known at the earlier stages. The essential analysis of the maintenance of the website using the web servers and the quality of the employees.

UNDERSTAND THE BUSINESS NEEDS – USER PERSONAS

Who are you building this product for? Define your end users by creating user personas that outline the needs, motivations, and pain points of people who will use your product.

- The need for the product is to make the students get to know about the colleges that are available in a single platform.
- Some students get a good college for the scores obtained by them and some are struggling to get them, the question arises of why is this happening to them. This motivates them the other opportunities to search for colleges.
- The major problem is that there are about 547 Engineering colleges and 622 Arts and Science colleges and 46 Medical colleges in Tamil Nadu. It is not possible to check each one of them and select the better college for a student.
- Parents are getting tensed by others' words about selecting the college for their sons/daughters. This is why the introduction of the product will reduce the stress on the parents and the students.
- The way of introduction of the product will help the students to select the college and their suitable career for the future.

UNDERSTAND THE BUSINESS NEEDS – SUCCESS CRITERIA

Next, we want to identify the success criteria that will demonstrate whether or not the product will be successful. Note that the success criteria can and usually will be more than a single metric.

- The entry of most of the customers is the main success of the product. The benefit of most of the students able to get the prediction of the suitable college is the major success of the project.
- The product cost that is been invested is rising towards a rise rather than falling into the loss of the money that is introduced to the product.
- Colleges getting attention of the students, that they are getting to know of their names and making an approach to enter into the institution to pursue their career.

USER JOURNEYS

User (Actor)	Actions (Jobs)	Story Ending
➤ Student	<ul style="list-style-type: none"> ➤ Searching for college. ➤ Having scores of 12th grade and competitive exams (NEET, JEE). 	<p>Customer is getting satisfied of the use of the website.</p> <p>Achieving the target of finding the best college for the students to pursue the career.</p>
➤ College	<ul style="list-style-type: none"> ➤ Giving the available courses in the web portal for prediction. ➤ Providing the courses that are offered in the college / universities. 	
➤ Admin / Website Management	<ul style="list-style-type: none"> ➤ Management of the portal during usage by the customers. ➤ Maintaining the investment details during the funding for the project. ➤ Proper maintenance of the servers and user credentials of the customers. 	

PAINS AND GAINS

Pains	Action	Gains
Students not aware of the colleges that are eligible for the scores that they have obtained.	A suitable source that might display the eligibility of the colleges that are present	The customer is benefited of the college that are present in the list
Prediction accuracy is varying for the colleges in the existing products for university prediction.	The prediction accuracy is to be increased by developing a proper model that shows a good analysis of the scores.	Since the prediction rate is increased the search for the college in the product is increased.
The existing product did not show all the scores that are available for the selection of the colleges and universities.	All the scores that are available for the colleges that needs to be included are added to make sure the customer is satisfied.	Customers are satisfied and makes it comfortable to search for all the available domains of the colleges and university.
How to work on the datasets and the deployment of the analysis model for the prediction?	IBM Cloud for deployment of the model. IBM Watson for training the model.	The product will be successfully introduced for the customers.

OPPORTUNITY STATEMENTS

How Might We increase the demand of the use of the web portal ?

The customers can be increased by increasing the efficiency of the product, to focus mainly on the prediction of the college list for the scores that are present. When the prediction rate is increased then the customers will be comfortable of finding the colleges in the product.

How Might We get the funding for the product development and maintenance ?

The product development need to analyze the funding of the product on the basis of the investors ready to fund the project. It involves the risk analysis measure of the profit rate and loss estimation of the product.

How Might We find the dataset and the cloud domain for analysis of the dataset ?

The IBM cloud and IBM Watson are considered to be the major source for the development of the web portal. The deployment of the model with the help of this it is easy and the prediction analysis can be done on par alongside the list of colleges. IBM Cloud will be used for the connectivity with the UI Design that is used for the customers to view the product.

PRIORITIZATION MATRIX

Debate

High Impact

Include in MVP

Design of the website using which technology stack.

The expectancy of the number of users and maintenance of the servers.

Collection of datasets for the prediction and analysis of the product.

Deployment of model in the IBM cloud with IBM Watson.

Low Urgency

High Urgency

Analysis of the product and feedback of the customers for the improvement of the project.

Maintenance of the servers for the uninterrupted usage by the customers.

The prediction result is below average or average then immediate view of the issue.

Any issues with the investment of the money for the product needs to viewed.

Don't Include in MVP

Low Impact

Revisit