Brainstorm & Idea Prioritization Template

Date Team ID Project Name	25 June 2025 LTVIP2025TMID33673 Traffictelligence
Maximum Marks	4Marks

Brainstorm & Idea Prioritization Template: Brainstorming provides a free and open

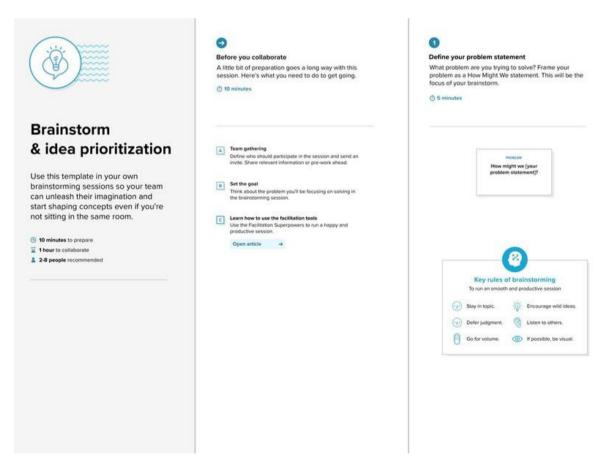
environment that encourages everyone within a team

to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

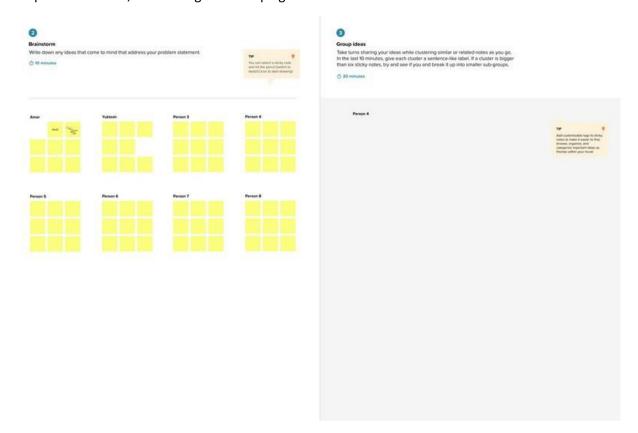
Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

Reference: https://www.mural.co/templates/brainstorm-and-idea-prioritization

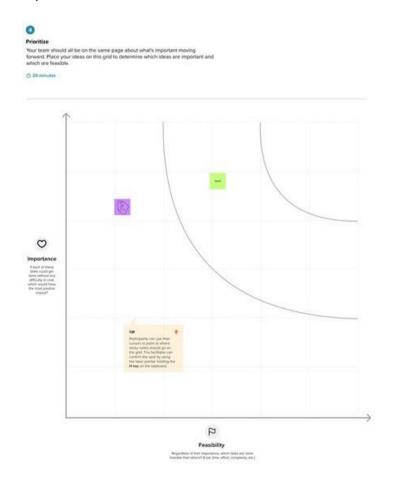
Step-1: Team Gathering, Collaboration and Select the Problem Statement



Step-2: Brainstorm, Idea Listing and Grouping



Step-3: Idea Prioritization



Ideation Phase Brainstorm & Idea Prioritization Template

Date	25 June 2025
Team ID	LTVIP2025TMID33673
Project Name	Traffictelligence
Maximum Marks	4 Marks

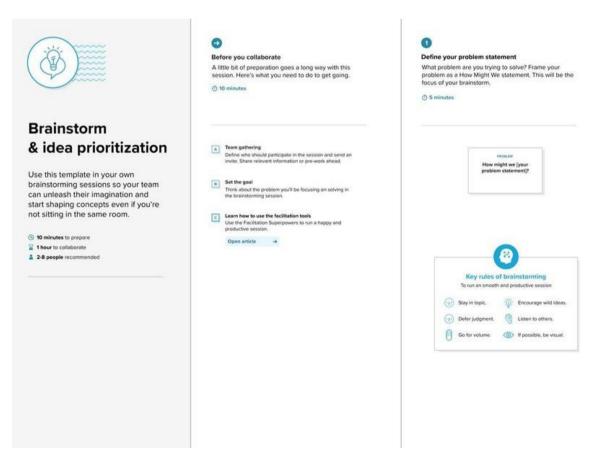
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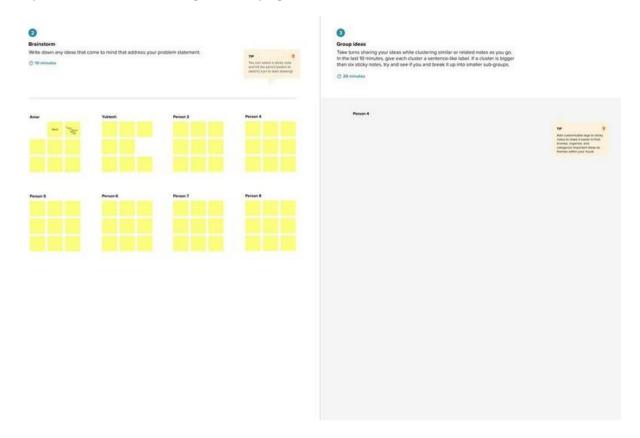
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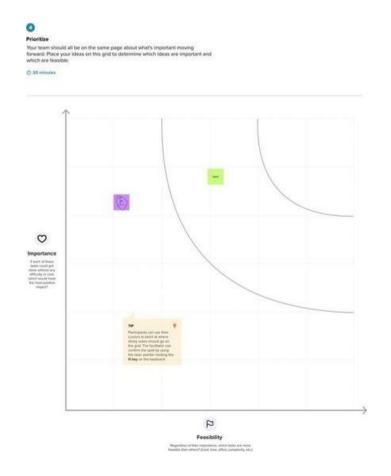
Step-1: Team Gathering, Collaboration and Select the Problem Statement



Step-2: Brainstorm, Idea Listing and Grouping



Step-3: Idea Prioritization



IdeationPhase Define the Problem Statements

Date	25 June 2025
Team ID	LTVIP2025TMID33673
Project Name	
	Traffictelligence
Maximum Marks	2Marks

Customer Problem Statement Template: Create a problem statement to understand your customer's point of view. The Customer

Problem Statement template helps you focus on what matters to create experiences people will love. A well-articulated customer problem statement allows you and your team to find the

ideal

solution for the challenges your customers face. Throughout the process, you'll also be able to empathize with your customers, which helps you better understand how they perceive your product or service.

l am	Describe customer with 3-4 key characteristics - who are they?	Describe the customer and their attributes here
I'm trying to	List their outcome or "job" the care about - what are they trying to achieve?	List the thing they are trying to achieve here
but	Describe what problems or barriers stand in the way – what bothers them most?	Describe the problems or barriers that get in the way here
because	Enter the "root cause" of why the problem or barrier exists – what needs to be solved?	Describe the reason the problems or barriers exist
which makes me feel	Describe the emotions from the customer's point of view – how does it impact them emotionally?	Describe the emotions the result from experiencing the problems or barriers

Reference: https://miro.com/templates/customer-problem-statement/

Example:



Problem	lam	I'm trying to	But	Because	Whichmakes me feel
Statement (PS)	(Customer)				
PS-1 PS-2					

Ideation Phase Define the Problem Statements

Date	25 June 2025
Team ID	LTVIP2025TMID33673
Project Name	Traffictelligence
Maximum Marks	2 Marks

Customer Problem Statement Template:

Create a problem statement to understand your customer's point of view. The Customer Problem Statement template helps you focus on what matters to create experiences people will love.

A well-articulated customer problem statement allows you and your team to find the ideal solution for the challenges your customers face. Throughout the process, you'll also be able to empathize with your customers, which helps you better understand how they perceive your product or service.

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Reference: https://miro.com/templates/customer-problem-statement/

Example:



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1					
PS-2					

IdeationPhase Empathize&Discover

Date	25 June 2025
Team ID	LTVIP2025TMID33673
Project Name	
	Traffictelligence
Maximum Marks	4Marks

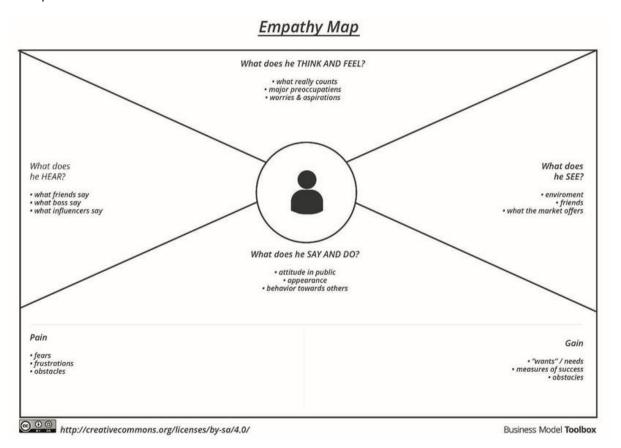
Empathy Map Canvas: An empathy map is a simple, easy-to-digest visual that captures

knowledge about a user's behaviours and attitudes.

It is a useful tool to helps teams better understand their users.

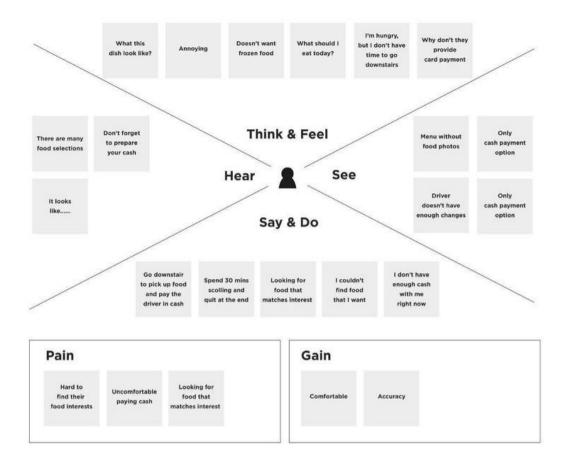
Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges.

Example:



Reference: https://www.mural.co/templates/empathy-map-canvas

Example: Food Ordering & Delivery Application



IdeationPhase Empathize&Discover

Date	25 June 2025
Team ID	LTVIP2025TMID33673
Project Name	
	Traffictelligence
Maximum Marks	4Marks

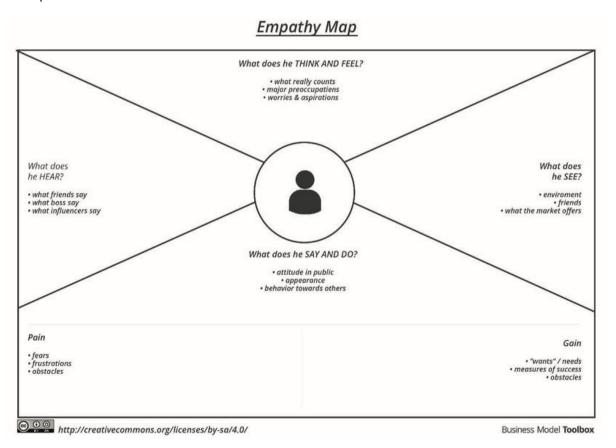
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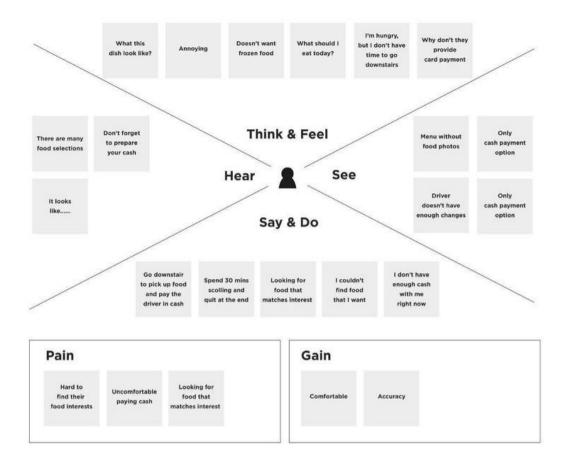
Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges.

Example:



Reference: https://www.mural.co/templates/empathy-map-canvas

Example: Food Ordering & Delivery Application



Ideation Phase Empathize & Discover

Date	25 June 2025	
Team ID	LTVIP2025TMID33673	
Project Name	Traffictelligence	
Maximum Marks	4 Marks	

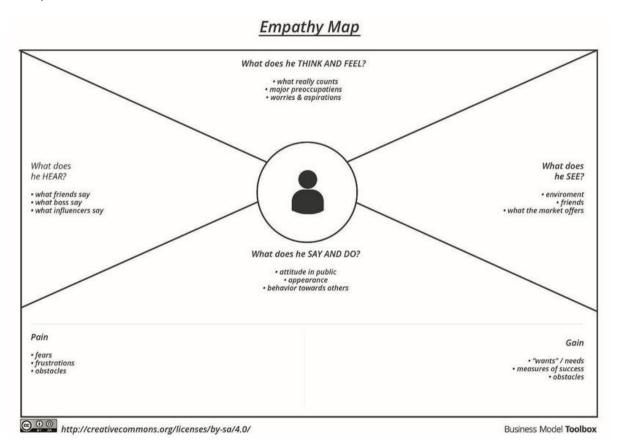
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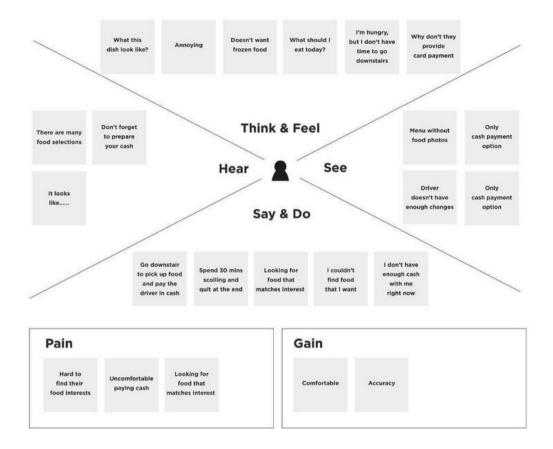
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Example:



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Example: Food Ordering & Delivery Application



Date	25 June 2025	
Team ID	LTVIP2025TMID33673	
Project Name	Traffictelligence	
Maximum Marks		

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Model Summary	-	
2.	Accuracy	Training Accuracy - Validation Accuracy -	
3.	Fine Tunning Result(if Done)	Validation Accuracy -	

Functional & Performance Testing Template

Model Performance Test

Date	25 June 2025	
Team ID	LTVIP2025TMID33673	
Project Name		
	Traffictelligence	
Maximum Marks		

Test Scenarios & Results

Test Case ID	Scenario (What to test)	Test Steps (How to test)	Expected Result	Actual Result	Pass/Fail
FT-01	Text Input Validation in (e.g., topic, job title)	Enter valid and nvalid text in input fields	Valid inputs accepted, errors for invalid inputs		
FT-02	Number Input Validation (e.g., word vocunt, size, rooms)	Enter numbers vithin and outside the valid range	Accepts valid values, shows error for out- of-range		
FT-03	Content Generation (e.g., blog, resume, design idea)	Provide complete inputs and click "Generate"	Correct content is generated based on input		
FT-04	API Connection Check	Check if API key is correct and model responds	API responds successfully		
PT-01	Response Time Test g	Use a timer to check content eneration time	Should be under 3 seconds		
PT-02	API Speed Test	Send multiple API calls at the same time	API should not slow down		

		Upload multiple	Should work	
			smoothly without	
PT-03	Test (e.g., PDFs)	processing	crashing	

Date	25 June 2025
Team ID	LTVIP2025TMID33673
Project Name	
	Traffictelligence
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Metrics	Regression Model: MAE - , MSE - , RMSE - , R2 score - Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -	
2.	Tune the Model	Hyperparameter Tuning - Validation Method -	

Date	25 June 2025
Team ID	LTVIP2025TMID33673
Project Name	
	Traffictelligence
Maximum Marks	

Model Performance Testing:

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	
2.	Data Preprocessing	
3.	Utilization of Data Filters	
4.	DAX Queries Used	
5.	Dashboard design	No of Visualizations / Graphs-
6	Report Design	No of Visualizations / Graphs -

Date	25 June 2025
Team ID	LTVIP2025TMID33673
Project Name	
	Traffictelligence
Maximum Marks	

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Model Summary	Salesforce automation setup for	
		Data management using Object, Fields and Reports.	The same services to the same
		Note : Import Records if data	19 0
		Match Correctly then Records will Created or Else it will Show Error	
2.	Accuracy	Training Accuracy - 98%	
		Validation Accuracy - 98%	Congratulations, your import has started! Click OK to view your import status on the Bulk Data Load Job page.
			ОК
3.	Confidence Score (Only Yolo Projects)	Class Detected - If detecting Object and fields name if wrong and other activity	Ed Part Linguis State Control
			The data source cannot be accessed. It may be in use by another process or
		Confidence Score - If the model is	the file system is not allowing access to it.
		92% sure the object is correctly detected	OK

User Acceptance Testing (UAT) Template

Date	25June 2025
Team ID	LTVIP2025TMID33673
Project Name	Traffictelligence
Maximum Marks	
	Health

Project Overview:

Project Name: [Enter Project Name]

Project Description: [Brief Description of the Project]

Project Version: [Version Number]

Testing Period: [Start Date] to [End Date]

Testing Scope:

[List of Features and Functionalities to be Tested]

[List of User Stories or Requirements to be Tested]

Testing Environment:

URL/Location: [Web URL or Application Location]

Credentials (if required): [Username/Password]

Test Cases:

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail
TC-001	[Describe the scenario to be tested]	[Step 1] [Step 2] [Step 3]	[Describe the expected outcome]	[Record the actual outcome]	[Pass/Fail]

Bug Tracking:

Bug ID	Bug Description	Steps to reproduce	Severity	Status	Additional feedback
BG-001	the issue or	[Step 1] [Step 2]	[Low/Medi	[Open/In Progress/	[Any additional

bug encountered	[Step 3]	um/High]	Closed]	comments or feedback]

Sign-off:

Tester Name: [Name of Tester]

Date: [Date of Test Completion]

Signature: [Tester's Signature]

Notes:

- ☑ Encourage testers to provide detailed feedback, including any suggestions for improvement.
- Bug tracking should include details such as severity, status, and steps to reproduce.
- Obtain sign-off from both the project manager and product owner before proceeding with deployment.

Project Design Phase Problem – Solution Fit Template

Date	25 June 2025
Team ID	LTVIP2025TMID33673
Project Name	
	Traffictelligence
Maximum Marks	2 Marks

Problem – Solution Fit Template:

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why

Purpose:

- ☐ Solve complex problems in a way that fits the state of your customers.
- ☐ Succeed faster and increase your solution adoption by tapping into existing mediums and channels of behavior.
- ☐ Sharpen your communication and marketing strategy with the right triggers and messaging.
- ☐ Increase touch-points with your company by finding the right problem-behavior fit and building trust by solving frequent annoyances, or urgent or costly problems.
 - ☐ Understand the existing situation in order to improve it for your target group.

Template:



References:

- 1. https://www.ideahackers.network/problem-solution-fit-canvas/
- 2. https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe

Problem-Solution fit canvas 2.0

Purpose / Vision

1. CUSTOMER SEGMENT(S)

Who is your customer?

6. CUSTOMER

CS

J&P

Whatconstraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices.

5. AVAILABLE SOLUTIONS

CC

RC

Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking

lore AS, differentiate

BE

CH

Extract online & offlineCHofBE

2. JOBS-TO-BE-DONE / PROBLEMS

Which jobs-to-be-done(or problems)doyouaddressforyour customers? There could be more than one; explore different sides.

9. PROBLEM ROOT CAUSE

What is the real reason that this problem exists? What is the back story behind the need to do this job? i.e. customers have to do it because of the change in regulations.

7. BEHAVIOUR

Whatdoes yourcustomer do to address the problem and get the job done? i.e. directly related: find the right solar panel installer, calculate usage and benefi_it_ns_d; irectly associated: customers spend free time on volunteering work (i.e. Greenpeace)

s on J&P, tap into BE, und

3. TRIGGERS

What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.

TR 10. YOUR SOLUTION

If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality.

If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.

8. CHANNELS of BEHAVIOUR

8.1 ONLINE

What kind of actions do customers take online? Extract online channels from #7

4. EMOTIONS: BEFORE / AFTER

Howdo customers feelwhen theyface a problem ora job and afterwards? i.e. lost, insecure > confident, in control - use it in your communication strategy & design.

8.2 OFFLINE

What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.

Identify strongTR&EM

EM

A Sprint fixed period or duration in which a team works to complete a set of tasks

An Epic is a big task or project that is too large to complete in one sprint. It is broken down into smaller tasks (stories) that can be completed over multiple sprints.

A Story is a small task. It is part of an Epic.

A Story Point is a number that represents how much effort a story takes to complete. (usually in form of Fibonacci series)

- 1- Very Easy task
- 2- Easy task
- 3- Moderate task
- 5- Difficult task

Sprint1: (5 Days)

Data Collection

Collection of Data 2

Loading Data 1

Data Preprocessing

Handling Missing Values 3

Handling Categorical values 2

Sprint 2 (5 Days)

Model Building

Model Building 5

Testing Model 3

Deployment

Working HTML Pages 3

Flask deployment 5

Total Story Points

Sprint 1 = 8

Sprint 2 = 16

Velocity= Total Story Points Completed/ Number of Sprints

Total story Points= 16+8 =24

No of Sprints= 2

Velocity = (16+8)/2= 24/2

12 (Story Points per Sprint)

Your team's velocity is 12 Story Points per Sprint.

Project Planning Phase

Project Planning Template(ProductBacklog,SprintPlanning, Stories, Story points)

Date	25 June 2025
Team ID	LTVIP2025TMID33673
Project Name	
Maximum Marks	Traffictelligence
Waxiiriani Wanto	5 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	
	Dashboard					

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20 20	6Days	31 Oct 2022	05 Nov 2022 12 Nov 2022		
Sprint-3	20	6Days	07 Nov 2022	19 Nov 2022		
Sprint-4		6Days	14 Nov 2022			

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

Burndown Chart:

Aburn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts

FAIRPLANE ≽

Guided city tours















Browsing, booking, attending, and rating a local city tour



Howdoessomeone initially become aware of this process?



Enter

What do people experience as they begin the process?



Engage

In the coremoments in the process, what happens?



Leave the guide & group

What do people typically experience as the process finishes?







Steps

What does the person (or group) typically experience?

Most customers discover city tours as they are booking other Fairplane travel

Booking other travel

Start purchase of a tour

Confirm payment & book tour contact and credit card information,

Experience the tour



Interactions

What interactions do they have at each step along the way?

- People: Who do they see or talk to?
- Places: Where are they?

Goals & motivations

Things: What digital touchpoints or physical objects would they use?

("Help me..." or "Help me avoid...")

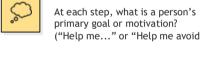


The customer looks for the group or guide, ofte from a distance as the walk closer

Depending on the tour participant and guide, tipping/cash may be involved

Help me leave the tour with good feelings and no awkwardness

Often takes place at the same place where the group met the guide, bu not always



Positive moments

What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?

t's reassuring to re reviews written by past travelers

People like looking back on their past trips

If other users interact with this person, they will see these completed tours also



Negative moments

What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?

Trepidation about the purchase ("I hope this will be worth it!")



People describe leaving a review as an arduous process

Areas of opportunity

How might we make each step better? What ideas do we have? What have others suggested?

Project Design Phase-II Data Flow Diagram & User Stories

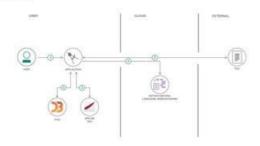
Date	25 June 2025
Team ID	LTVIP2025TMID33673
Project Name	
Maximum Marks	Traffictelligence
Maximum Mario	4 Marks

Data Flow Diagrams: A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear **Data Flow Diagrams:** A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right

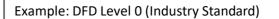
amation to a nthe system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

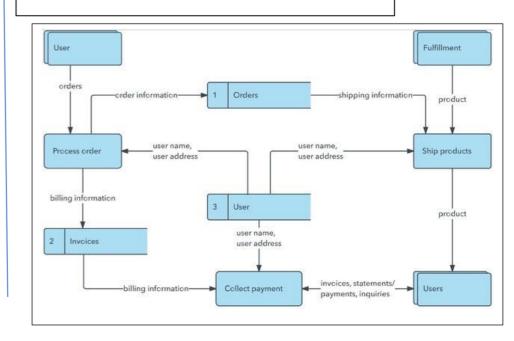
Example: (Simplified)

Flow



- User configures credentials for the Watson Natural Language Understanding service and starts the app.
- 2. User selects data file to process and load.
- 3. Apache Tika extracts text from the data file.
- 4. Extracted text is passed to Watson NLU for enrichment.
- 5. Enriched data is visualized in the UI using the D3.js library.





User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number USN-1	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USIN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard I can receive confirmation	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook As a user, I can register for the application	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard					
Customer (Web user)						
Customer Care Executive						
Administrator						

Project Design Phase-II Solution Requirements (Functional & Non-functional)

Date	25 June 2025
Team ID	LTVIP2025TMID33673
Project Name	Traffictelligence
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form
		Registration through Gmail
		Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email
		Confirmation via OTP
FR-3		
FR-4		

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	
NFR-2	Security	
NFR-3	Reliability	
NFR-4	Performance	
NFR-5	Availability	
NFR-6	Scalability	

Project Design Phase-II Solution Requirements (Functional & Non-functional)

Date	25 June 2025
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_	Traffictelligence
Maximum Marks	4 Marks

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		Registration through Gmail
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FR-2	User Confirmation	Confirmation via Email
		Confirmation via OTP
FR-3		
FR-4		

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	
NFR-2	Security	
NFR-3	Reliability	
NFR-4	Performance	
NFR-5	Availability	
NFR-6	Scalability	
	334,45	

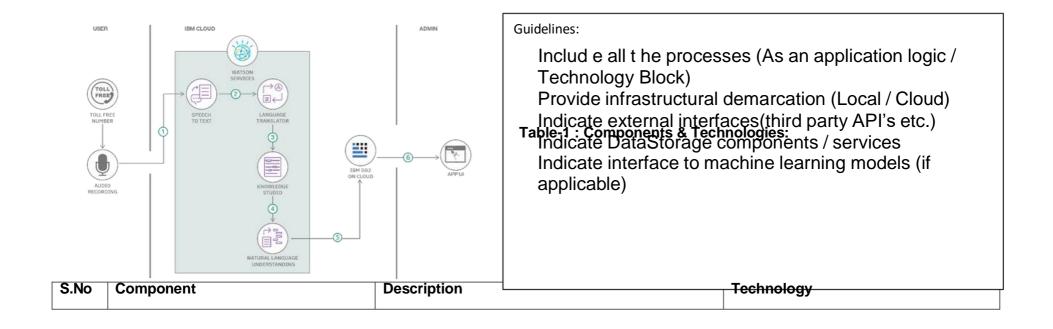
Project Design Phase-II Technology Stack (Architecture & Stack)

Date	25 June 2025
Team ID	LTVIP2025TMID33673
Project Name	
Maximum Marks	Traffictelligence
Waximum Wanto	4 Marks

Technical Architecture: The Deliverable shall include the architectural diagram as below and the information as per the table1

& table 2 Example: Order processing during pandemics for offline mode Reference:

https://developer.ibm.com/patterns/ai-powered-backend-system-for-order-processing-during-pandemics/



1.	User Interface Application	How user interacts with application e.g. Web UI,	HTML, CSS, JavaScript / Angular Js /
		Mobile App, Chatbot etc. Logic for a process in	React Js etc.
2.	Logic-1	the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage
8.	External API-1	Purpose of External API used in the application	Service or Local Filesystem IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Machine Learning Model Application	Object Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Deployment on Local System / Cloud	Local, Cloud Foundry, Kubernetes, etc.
		Local Server Configuration: Cloud Server Configuration:	

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier,	Technology used
4.	Availability	Micro-services) Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used

S.No	Characteristics	Description	Technology
5.	Performance	Design consideration for the performance of the	Technology used
		application (number of requests per sec, use of	
		Cache, use of CDN's) etc.	

References:

https://c4model.com/

https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/

https://www.ibm.com/cloud/architecture

https://aws.amazon.com/architecture

https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d

Project Design Phase-II Technology Stack (Architecture & Stack)

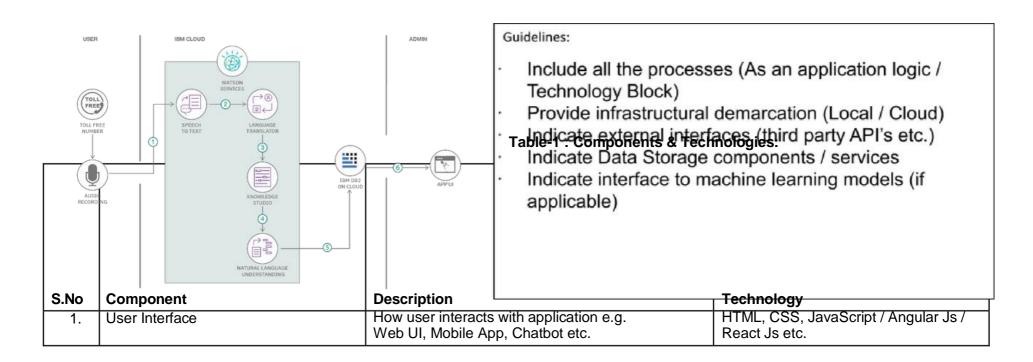
Date	25 June 2025
Team ID	LTVIP2025TMID33673
Project Name	
	Traffictelligence
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2

Example: Order processing during pandemics for offline mode

Reference: https://developer.ibm.com/patterns/ai-powered-backend-system-for-order-processing-during-pandemics/



2.	Application Logic-1	Logic for a process in the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3 Database	Logic for a process in the application	IBM Watson Assistant
5.	Cloud Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	File Storage	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	External API-1	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-2	Purpose of External API used in the application	IBM Weather API, etc.
9.	Machine Learning Model	Purpose of External API used in the application	Aadhar API, etc.
10.	Infrastructure (Server / Cloud)	Purpose of Machine Learning Model	Object Recognition Model, etc.
11.		Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
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3.	Scalable Architecture	Justify the scalability of architecture (3 – tier,	Technology used
4.	Availability	Micro-services) Justify the availability of application (e.g. use of	Technology used
		load balancers, distributed servers etc.)	

S.	.No	Characteristics	Description Design consideration for the	Technology
	5.	Performance	performance of the	Technology used
			application (number of requests per sec, use of Cache, use of CDN's) etc.	

References:

https://c4model.com/

https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/

https://www.ibm.com/cloud/architecture

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https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d

Project Report Format

- 1. INTRODUCTION
 - 1.1 Project Overview
 - 1.2 Purpose
- 2. IDEATION PHASE
 - 2.1 Problem Statement
 - 2.2 Empathy Map Canvas
 - 2.3 Brainstorming
- 3. REQUIREMENT ANALYSIS
- 3.1 Customer Journey map
- 3.2 Solution Requirement
- 3.3 Data Flow Diagram
- 3.4 Technology Stack
- 4. PROJECT DESIGN
 - 4.1 Problem Solution Fit
 - 4.2 Proposed Solution
 - 4.3 Solution Architecture
- 5. PROJECT PLANNING & SCHEDULING
 - 5.1 Project Planning
- 6. FUNCTIONAL AND PERFORMANCE TESTING
 - 6.1 Performance Testing
- 7. RESULTS
 - 7.1 Output Screenshots
- 8. ADVANTAGES & DISADVANTAGES
- 9. CONCLUSION
- 10. FUTURE SCOPE
- 11. APPENDIX

Source Code(if any)

Dataset Link

GitHub & Project Demo Link

Full Stack Development with MERN

Project Documentation format

1. Introduction

- Project Title: [Your Project Title]
- **Team Members:** List team members and their roles.

2. Project Overview

- Purpose: Briefly describe the purpose and goals of the project.

3. Architecture

- Backend: Outline the backend architecture using Node.js and Express.js.
- Database: Detail the database schema and interactions with MongoDB.

4. Setup Instructions

- Prerequisites: List software dependencies (e.g., Node.js, MongoDB).
- ☑ Installation: Step-by-step guide to clone, install dependencies, and set up the environment variables.

5. Folder Structure

- ☐ Client: Describe the structure of the React frontend.
- Server: Explain the organization of the Node.js backend.

6. Running the Application

- □ Provide commands to start the frontend and backend servers locally.
 - o Frontend: npm start in the client directory.
 - O Backend: npm start in the server directory.

7. API Documentation

- Document all endpoints exposed by the backend.
- ☑ Include request methods, parameters, and example responses.

8. Authentication

- Explain how authentication and authorization are handled in the project.
- Include details about tokens, sessions, or any other methods used.

9. User Interface

□ Provide screenshots or GIFs showcasing different UI features.

10. Testing

□ Describe the testing strategy and tools used.

11. Screenshots or Demo

□ Provide screenshots or a link to a demo to showcase the application.

12. Known Issues

□ Document any known bugs or issues that users or developers should be aware of.

13. Future Enhancements

□ Outline potential future features or improvements that could be made to the project.