



# Index

---

## Table of content

- Program Flow
- Problem statement
- Challenge
- List of Deliverables
- Final Presentation
- Evaluation Parameters

# Program Flow

---

## Timing

7:00 AM

7:30 AM

**8:00 AM**

9:00 AM

1:00 PM

**4:00 PM**

4:00 PM

4:10 PM

6:00 PM

7:00 PM

## Event Flow

Welcome all!

Briefing Session

★ **Kick starting Hackathon 2025**

Breakfast

Lunch

**Clock Stops**

Snacks

Final presentation to the Jury

Award Ceremony

Closing ceremony & Dinner

# Problem Statement

---



Engineering and project teams often lack a unified, real-time view of their productivity metrics. With distributed workflows across Trello, GitHub, or Notion, data remains fragmented. Manual reporting and scattered updates make it difficult to identify bottlenecks, assess progress, and respond proactively to workload imbalances.

# The Challenge

---

The challenge is to develop a Team Productivity Dashboard that provides a real-time, consolidated view of team performance. The dashboard must automatically fetch, normalize, and visualize metrics from collaboration tools using APIs, allowing teams to track open issues, recent completions, and overall progress efficiently.



## Things to consider

- ★ Select one core API integration for MVP (e.g., Trello or GitHub or Manual Import of data).
- ★ Focus on three key metrics: open issues/tasks, tasks closed in the last day/hour, and total task completion percentage.
- ★ Ensure data refresh happens in Realtime via asynchronous calls and caching (Redis or in-memory store).
- ★ Use lightweight frameworks such as React + Node.js with MongoDB or SQLite for task metadata persistence.
- ★ Prioritize responsive visualizations using Chart.js, D3.js, or React Recharts.
- ★ Keep design minimal for interpretability and user engagement.

# Deliverables

---

## Executive Doc Should Consist:

### **1. Functional MVP Demo:**

- Hosted app or Localhost demo.

### **2. Source Code Repository (GitHub):**

- README.md with setup instructions
- API keys and environment configuration details

### **3. AI Integration Report:**

- Explanation of AI use cases (LLM summarization, forecasting, sentiment analysis)
- Libraries/models applied (e.g., OpenAI GPT, Hugging Face BERT, scikit-learn)
- Learning outcomes and improvement insights.

# Final Presentation should include :

---

- ✓ Problem to solve and relevance to team productivity.
- ✓ Live demo or recorded walkthrough of dashboard features
- ✓ Architecture and tech stack diagram.
- ✓ Integration details (API flow, Redis caching, AI modules).
- ✓ Predictive analytics and AI insight examples (“Average closure time up 20% this week”).
- ✓ Future scope for scaling (multi-team benchmarking, Slack/email summaries).

## Things to remember while presenting

- ✓ Start with a clear problem context and demo-based storytelling rather than technical jargon.
- ✓ Highlight how automation and visualization reduce manual effort.
- ✓ Showcase AI differentiators: insight generation, anomaly detection, and workload prediction.
- ✓ Keep transitions under 30 seconds between sections and end with a measurable outcome (e.g., “Reduced manual reporting time by 60%”).

# Evaluation Parameters



Criteria	Description
Concept Clarity	Clearly defines the problem and objective
Technical Depth	Efficient integration, clean architecture, use of API/Redis
AI Integration	Effective use of AI for summarization, forecasting, and sentiment interpretation
UI/UX Quality	Real-time, engaging, and accessible visualization layout
Presentation Delivery	Confidence, clarity, and ability to convey value succinctly
Innovation Potential	Scope for team comparison, predictive benchmarks, or smart alerts

# Problem Statement - Demo



PULSEVO

Today

Overview Tasks AI Insights Query Settings

### Task Management

Name	Assigned	Completed	Ongoing	Trend
AJ Alice Johnson	2	1	0	— 50.0%
BS Bob Smith	1	0	0	↘ 0.0%
CD Carol Davis	3	0	1	↘ 0.0%
DL David Lee	6	1	1	↘ 16.7%
EW Emma Wilson	4	0	2	↘ 0.0%
FM Frank Martinez	5	0	1	↘ 0.0%
GC Grace Chen	4	4	0	↗ 100.0%
HT Henry Taylor	4	2	1	— 50.0%
IA Iris Anderson	6	1	1	↘ 16.7%
SW Shane Williams	6	1	1	↘ 16.7%
GL Georgia Lopez	6	1	1	↘ 16.7%

< Previous 1 2 Next >

### Tasks by Project

API Services: 40  
Mobile App: 32  
Web Platform: 28

### Open Issues by Project

API Services: 40  
Mobile App: 10  
Web Platform: 3

PULSEVO

Today

Overview Tasks AI Insights Query Settings

### Task Management

Name	Assigned	Completed	Ongoing	Trend
AJ Alice Johnson	2	1	0	— 50.0%
BS Bob Smith	1	0	0	↘ 0.0%
CD Carol Davis	3	0	1	↘ 0.0%
DL David Lee	6	1	1	↘ 16.7%
EW Emma Wilson	4	0	2	↘ 0.0%
FM Frank Martinez	5	0	1	↘ 0.0%
GC Grace Chen	4	4	0	↗ 100.0%
HT Henry Taylor	4	2	1	— 50.0%
IA Iris Anderson	6	1	1	↘ 16.7%
SW Shane Williams	6	1	1	↘ 16.7%
GL Georgia Lopez	6	1	1	↘ 16.7%

< Previous 1 2 Next >

Drag and drop files here, or click to browse  
PDF, DOCX, JPG, PNG up to 10MB each

Browse Files

### Tasks by Project

API Services: 40  
Mobile App: 32  
Web Platform: 28

### Open Issues by Project

API Services: 40  
Mobile App: 10  
Web Platform: 3

 PULSEVO

Today 

Overview Tasks **AI Insights** Queries Settings

 **AI-Powered Summary**

Over the last 24 hours, your team completed **5 tasks** with an average closure time of **58.1 hours**. Task completion velocity has decreased by **17.6%**, indicating potential bottlenecks.

There are 11 blocked tasks requiring attention.

 Task Closure Performance

Current Avg **30.1h** Previous Avg **25.6h**

 Blocked Tasks Alert

Blocked Tasks **15** % of Total **30.0%**

 Due Date Compliance

Overdue **14** On Time **23**

 In Progress Status

Active Tasks **13** Avg Active Time **159.2h**

**Predictive Performance Analysis**

Based on historical data patterns and current velocity

Projected Sprint Completion **94%**

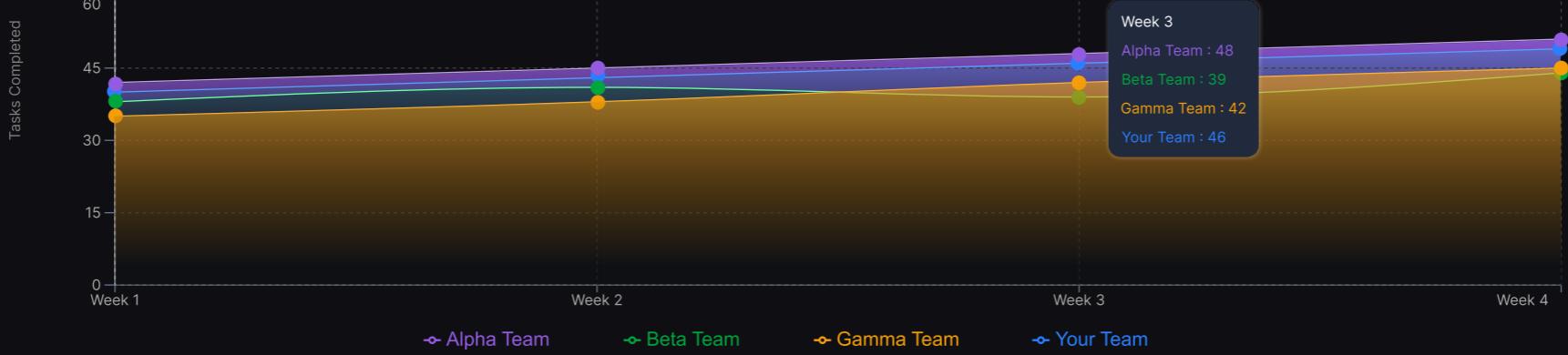
Next Week Workload **Medium**  
~48 tasks expected

Risk Level **Low**  
No major bottlenecks

 **Team Benchmarking**

AI-powered comparison across teams

**4-Week Productivity Trends**



Team	Total Tasks	Velocity	Efficiency	Rank
Your Team	178	49/wk	92% 	#2
Alpha Team	186	51/wk	94% 	#1
Beta Team	162	44/wk	88%	#3
Gamma Team	160	45/wk	85%	#4

 **Benchmarking Insights**

Your team ranks **#2** with 8 tasks behind Alpha Team. Velocity increased 22% over 4 weeks, outpacing Beta (+16%) and Gamma (+29%). Focus on efficiency improvements to reach #1 position.

**Team Communication Sentiment**

Analyzed from commit messages and task comments

 Positive

 Neutral

 Negative

Insight: Team morale appears positive. Keep up the good work and maintain open communication.

The screenshot shows the Pulsevo AI interface in dark mode. At the top, there's a navigation bar with tabs: Overview, Tasks, AI Insights, **Queries**, and Settings. A user profile icon is in the top right corner, next to a "Today" dropdown.

The main area features a "Conversational Query Interface" section with a green speech bubble icon. It says: "Ask questions about your team's productivity in natural language". Below this, a message from the AI assistant reads: "Hello! I'm your AI assistant. Ask me anything about your team's productivity, tasks, or performance metrics. Try questions like:". The timestamp is 2:08:59 PM.

On the right side, a user's query is shown in a blue message bubble: "How many bugs did we close this sprint?". The timestamp is 2:09:09 PM.

At the bottom, there's a text input field with placeholder text "Ask me anything about your team's productivity..." and a blue "Send" button with a paper airplane icon.

The screenshot shows the Pulsevo AI interface in dark mode, specifically the Settings page. The navigation bar at the top includes tabs: Overview, Tasks, AI Insights, Query, and **Settings**. A user profile icon is in the top right corner, next to a "Today" dropdown.

The main content area starts with a "Settings" section titled "Configure API connections and preferences".

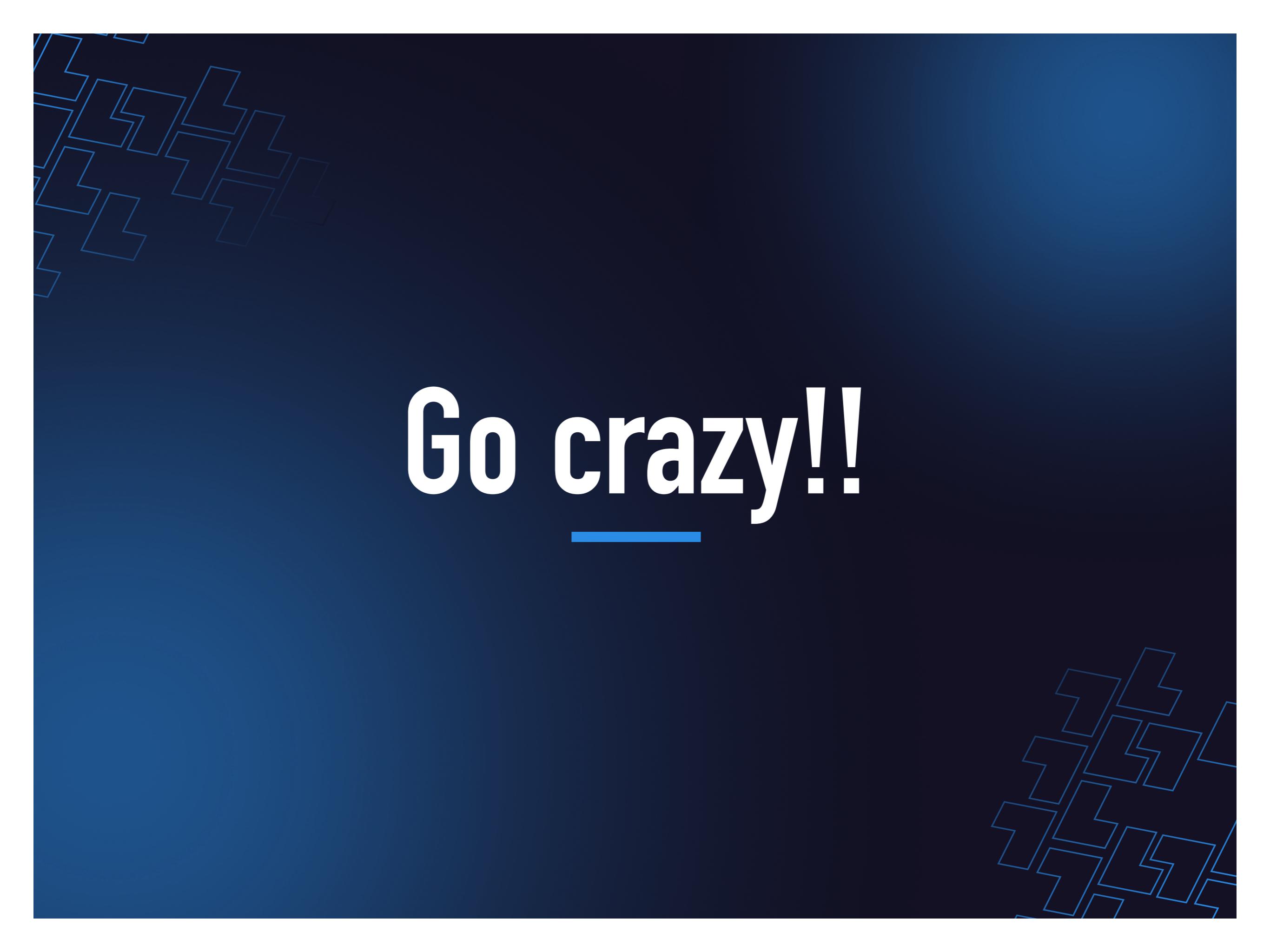
**API Configuration**

- GitHub Personal Access Token**: A text input field containing "ghpxxxxxxxxxx". A note below says "Required for fetching GitHub Issues data".
- Trello API key**: A text input field with placeholder "Enter your Trello API Key".
- Trello Token**: A text input field with placeholder "Enter your Trello token".

A blue "Save API Keys" button is located at the bottom of this section.

**Notifications**

- Task Updates**: A description "Notify on task status changes" followed by a blue toggle switch.
- AI Insights**: A description "Receive AI-generated summaries" followed by a blue toggle switch.
- Daily Digest**: A description "Get daily productivity reports" followed by a grey toggle switch.



Go crazy!!

---

# Teams

---



## Team 1

Abhinay Kumar Pralyakaveri

Amari Pravallika

Badi Dinesh Reddy

Mouli

NETTEM CHIRANJEEVI SAI  
RITHVIK

Vandavasi Baba Mahesh

## Team 2

Anantha Sirija

Balaji Yadavalli

Brahmagnani Sreeram

Mounika Paravasthu

Venkata Ramakrishna Payyala  
Venkata Sai Modhepalli

## Team 3

Chandu

Charan Nallajama

KOTA RAGHAVENDRA

Peddireddy Kowshik

Priyanka Vundela  
SHAIK RAIYAN

# Teams

---



## Team 1

Abhinay Kumar Pralyakaveri

Amari Pravallika

Badi Dinesh Reddy

Mouli

NETTEM CHIRANJEEVI SAI  
RITHVIK

Vandavasi Baba Mahesh

## Team 2

Laxmi Priya S

Tresa Rose Anoop

Shanmukhi

Ritika Agarwal

Bulbul Raghuvanshi

Amishi Tripathi

## Team 3

Maanya Bhargava

Sreenu R J

Srikant Sahoo

Varesh Mukhekar

Sudharsanaa Kaviraj

kunal Kshirsagar

# Teams

---



## Team 1

Abhinay Kumar Pralyakaveri

Amari Pravallika

Badi Dinesh Reddy

Mouli

NETTEM CHIRANJEEVI SAI  
RITHVIK

Vandavasi Baba Mahesh

## Team 8

Laxmi Priya S

Tresa Rose Anoop

Shanmukhi

Ritika Agarwal

Bulbul Raghuvanshi

Amishi Tripathi

## Team 9

Mahidhar Peram

Mallam JeevanReddy

Shaik Asif

Sunil Narravula

Visala Rachamalli

Yeturu Surya

# Teams

---



## Team 10

MAMILLAPALLI MANOJ NAIDU

Meghana D

Mounish Reddy

Shaik Bhasidh

Shaik Karimulla

Syed Mohammad Rizwan

## Team 2

Laxmi Priya S

Tresa Rose Anoop

Shanmukhi

Ritika Agarwal

Bulbul Raghuvanshi

Amishi Tripathi

## Team 3

Maanya Bhargava

Sreenu R J

Srikant Sahoo

Varesh Mukhekar

Sudharsanaa Kaviraj

kunal Kshirsagar

# Teams

---



## Team 1

Abhinay Kumar Pralyakaveri

Amari Pravallika

Badi Dinesh Reddy

Mouli

NETTEM CHIRANJEEVI SAI  
RITHVIK

Vandavasi Baba Mahesh

## Team 2

Laxmi Priya S

Tresa Rose Anoop

Shanmukhi

Ritika Agarwal

Bulbul Raghuvanshi

Amishi Tripathi

## Team 3

Maanya Bhargava

Sreenu R J

Srikant Sahoo

Varesh Mukhekar

Sudharsanaa Kaviraj

kunal Kshirsagar