TITLE PAGE

- **Problem Statement ID – 1702**
- **Problem Statement Title - Bail Reckoner**
- **Theme - Smart Automation**
- **PS Category - Software**
- **Team ID-**
- **Team Name (Registered on portal)**

GRID

Streamlining Justice Through Technology

SMART INDIA HACKATHON 2024

Problem Statement:

•Complex, time-consuming bail process
•Inconsistent bail decisions
•Lack of clarity and transparency
•Judicial backlog and overcrowded prisons

Our Solution:

•**Bail Reckoner**: A digital tool (Website + Mobile App)
•Simplifies bail application and evaluation
•Integrates all legal and procedural information
•Provides clear, guided workflows
•Procedural prerequisites

Key Features:

•**Bail Eligibility Checker**: Instantly assess bail eligibility
•**Consistent Legal Application**: Standardized criteria for fairness
•**Interactive Legal Guidance**: Step-by-step assistance and contextual help to ensure accurate and informed decision-making throughout the bail process.
•**Comprehensive Dashboards**: Tailored for judges, legal aid, and prisoners
•**Legal Resource Repository**:
Access a comprehensive database of statutes, judicial pronouncements, and procedural guidelines.
•**Document Management System**:
Securely upload, manage, and retrieve all necessary legal documents within the platform.
•**Search Functionality**:
Advanced search and filtering options to quickly locate cases, prisoners, or legal resources.

GRID

TECHNICAL APPROACH

SMART INDIA HACKATHON 2024

- We will **design a relational database schema** to store legal information, case details, user data, and bail statuses.
- We will **develop RESTful APIs** to facilitate communication between the backend and frontend.
- We will implement algorithms to **evaluate bail eligibility** based on the nature of offenses, time served, judicial discretion, and other parameters.
- We will design a user-friendly **interface that caters to different user roles**: undertrial prisoners, legal aid providers, and judicial authorities.
- We will **integrate data from various legal statutes, judicial rulings, and procedural requirements**. We will use web scraping or APIs from legal databases if available.

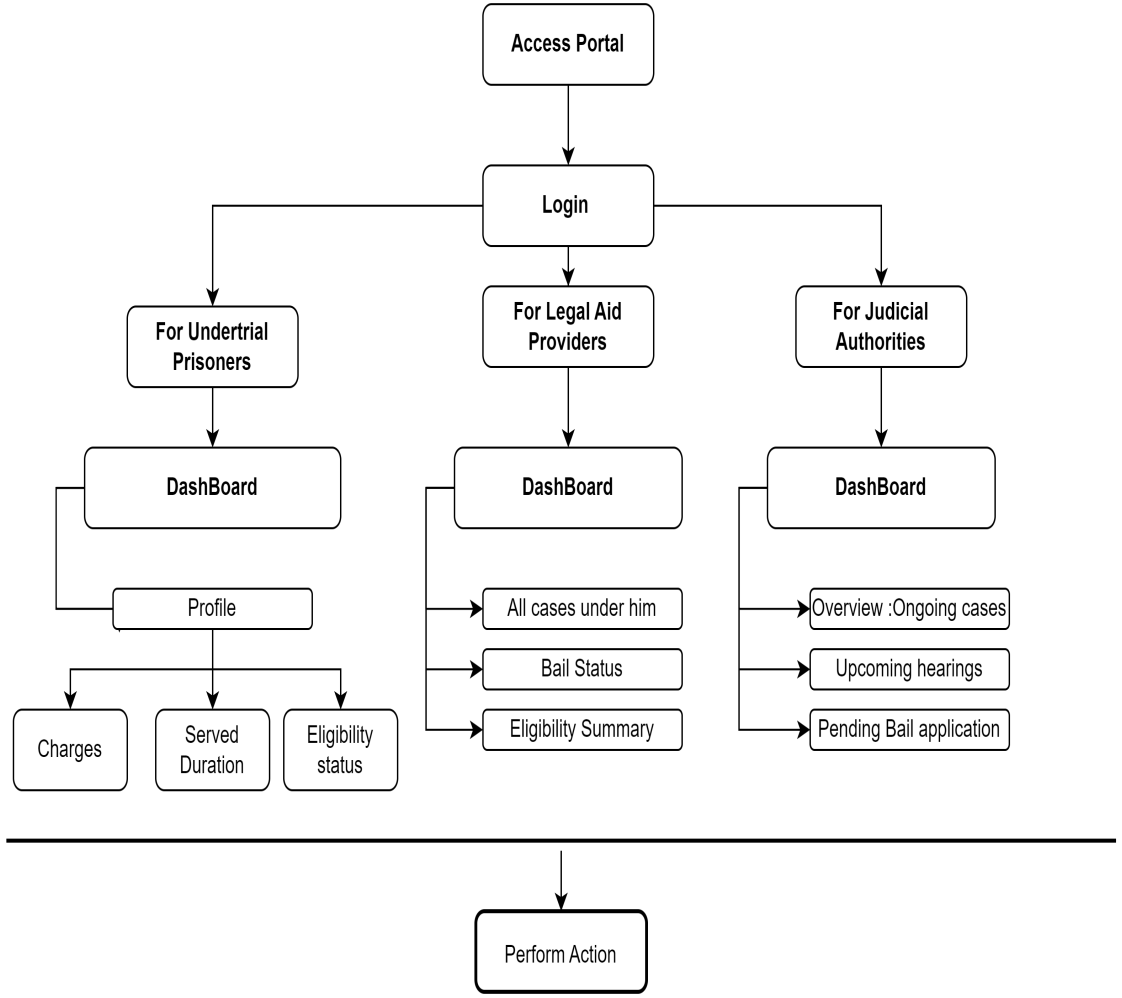
Tech Stack Required

- **Front-End:** React and React Native is used to create the user interface of the our solution .
- **Back-End:** Node.js as the runtime env for the back-end, handling server-side logic and APIs.
- **Express.js** simplifies routing, middleware, and HTTP request handling.
- **Database:** MongoDB for storing and managing data related to servers, firewalls, users, licenses, and more.
- **Authentication and Authorization**: OAuth or JWT.

GRID

FEASIBILITY AND VIABILITY

SMART INDIA HACKATHON 2024



Feasibility:

•**Technical**: The tool is technically feasible with existing technologies for database management, API development, and user interface design.

•**Integration**: Can be integrated into current legal and judicial systems with minimal disruption.

Viability:

•**Funding**: The site will not generate revenue as it is intended for public use and will be funded by government resources.

•**Sustainability**: The tool's ongoing operation will depend on government support and funding to maintain and update the system.

GRID

IMPACT AND BENEFITS

SMART INDIA HACKATHON 2024

For Undertrial Prisoners

•**Streamlined Process:** Simplifies the bail application process, reducing complexity and improving access to legal recourse.

•**Time Efficiency:** Speeds up the bail process by automating eligibility checks and procedural requirements.

For Judicial Authorities

•**Streamlined Evaluation:** Helps in efficiently evaluating bail applications by providing relevant legal information and tracking imprisonment durations.

For Legal Aid Providers

- **Enhanced Efficiency:** Streamlines the preparation and submission of bail applications, reducing administrative burdens and improving accuracy.

Benefits:

•**Enhanced Accessibility**: Makes the bail process clearer and more accessible for undertrial prisoners and their legal representatives.

•**Improved Decision-Making**: Supports informed decision-making with comprehensive legal and procedural data.

•**Government-Funded**: Operated as a public service with government funding, ensuring that it remains freely available and benefits all stakeholders.

GRID

RESEARCH AND REFERENCES

SMART INDIA HACKATHON 2024

- **Team Leader Name: Mohit Bansal**
- Degree: B.Tech Branch: ICE Year: II
- **Team Member 1 Name: Siran Parwin**
- Degree: B.Tech Branch: IT Year: II
- **Team Member 2 Name: Prakhar Bhatnagar**
- Degree: B.Tech Branch: ME Year: II
- **Team Member 3 Name: Gurwinder Singh**
- Degree: B.Tech Branch: ICE Year: II
- **Team Member 4 Name: Kushaghar Saxena**
- Degree: B.Tech Branch: ICE Year: II
- **Team Member 5 Name: Sneha**
- Degree: B.Tech Branch: IT Year: II
- **Team Mentor 1 Name: Mohit Bansal**
- Category (Academic/Industry): Expertise (AI/ML/Blockchain etc): Domain Experience (in years):