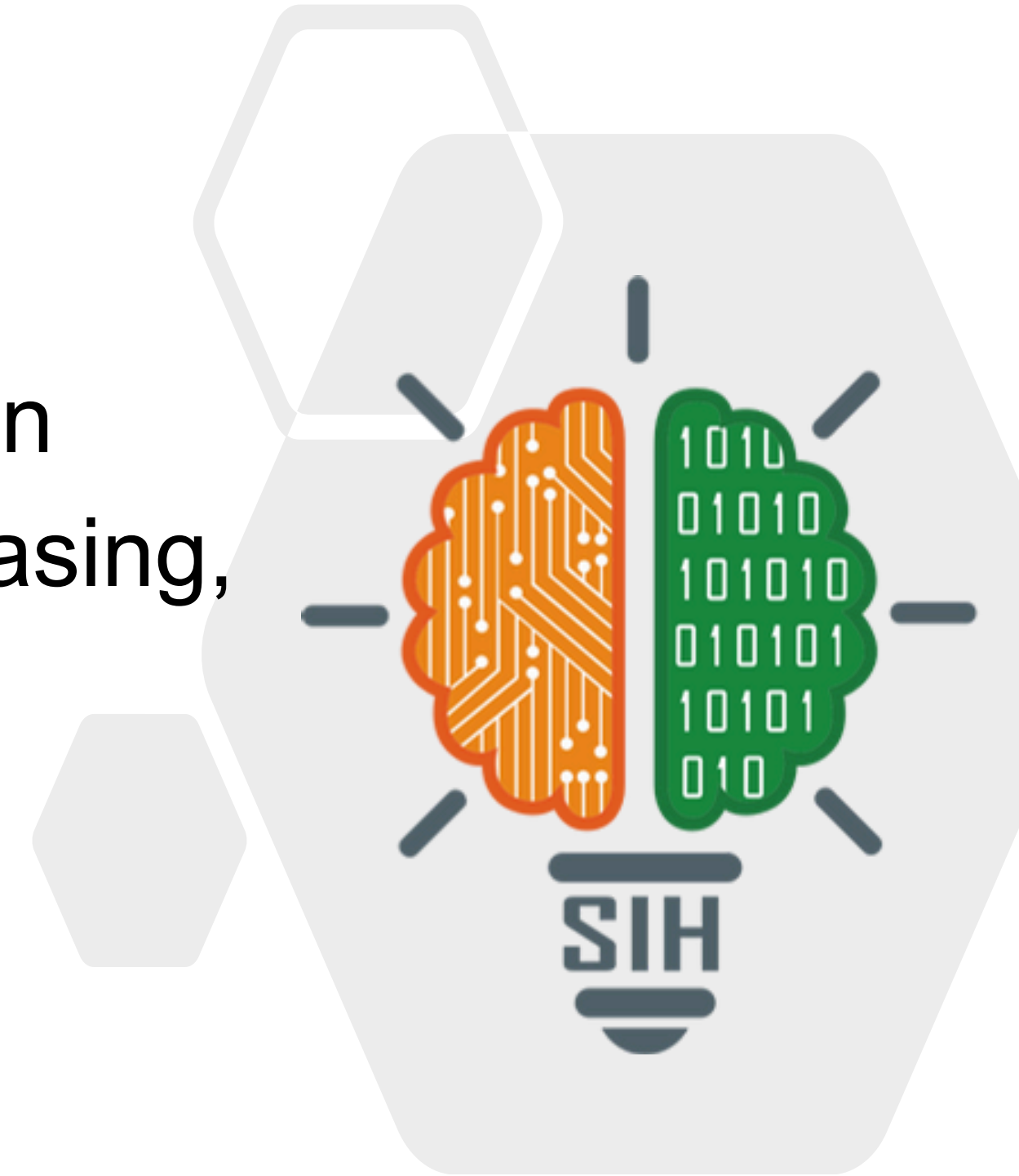


# SMART INDIA HACKATHON 2024



- **Problem Statement ID** - SIH1724
- **Problem Statement Title** - Platform for Inter-departmental cooperation (at city level) in Indian Cities, for sharing data & resources, unified phasing, planning and implementation of projects.
- **Theme** - Miscellaneous
- **PS Category** - Software
- **Team ID** -
- **Team Name** - Zenith



## Inter-Departmental Project Collaboration

## Proposed Solution:

- Coordination between all the involved government departments, proper planning & risk management has always been a major issue in major infrastructural projects & tasks.
- Introducing City Forge, a one stop integrated platform where one can find every needed information about all the projects and tasks involving government departments.
- The solution offers the following–
  - **Platform Dashboard** behaves as a one stop platform & presents all the information about the projects & resources and also visualizes the work distribution.
  - **Discussion Forum** acts as an environment that allows the users to convey relevant information, ideas or comments.
  - **Real-Time Monitoring** conducted by Geolocation services and drones provides accurate details about the status of the projects with any hinderances.
  - Delay Prediction & Risk Management provides data-driven insights helping in better planning. This reduces cost and improves resource management.

## Technology Stack:

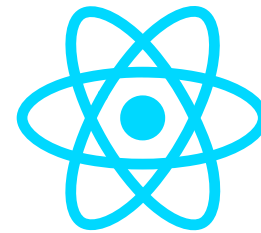


### Dashboard:

- MERN

### Scripts:

- Python
- JavaScript



### Database:

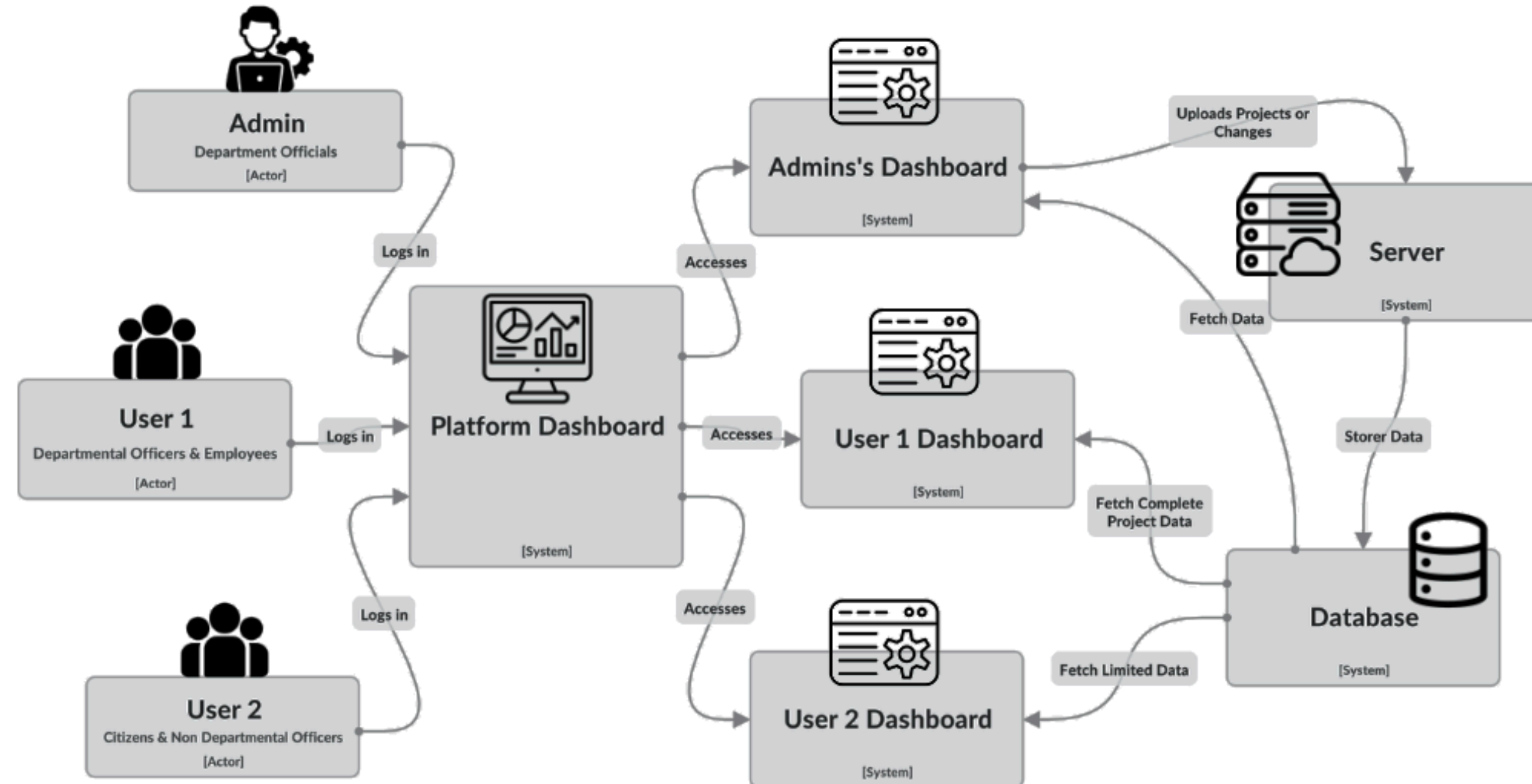
- MongoDB

### Tools:

- GitHub
- Postman



## Application Architecture:



## Feasibility Analysis

- Data Standardization
- Phased Implementation
- Robust Architecture
- Administrative Leadership
- Governance Framework

## Potential Challenges

- Cybersecurity Risks
- Departmental Silos
- Usage Adoption
- Skill Gaps
- Public Trust Issues

## Viable Strategies

- User friendly
- Collaborative Framework
- One stop functionality
- Modular Approach
- Real-Time Monitoring

## Impact:

- Increased Efficiency
- Enhanced Coordination
- Data-Driven Decisions
- Increased Transparency
- Resource Management

## Benefits:

- Cost Reduction
- Advanced Tools
- Risk Management
- Public Engagement
- Data Visualization



## Resources followed:

- <https://briq.com/blog/the-importance-of-cross-department-collaboration-in-construction>
- [https://www.researchgate.net/publication/366345017\\_Collaboration\\_and\\_Data\\_Sharing\\_in\\_Inter-Organizational\\_Infrastructure\\_Construction\\_Projects](https://www.researchgate.net/publication/366345017_Collaboration_and_Data_Sharing_in_Inter-Organizational_Infrastructure_Construction_Projects)
- <https://www.itcon.org/paper/2023/20>
- <https://www.ibef.org/government-schemes/pm-gati-shakti-yojana>

## External tools used:

- <https://github.com/newtein/erm>
- <https://github.com/Aditya1942/React-native-auth>
- <https://github.com/aaronksaunders/ReactNativeRealm-Expo-Template>

## Research Paper:

*Article***Collaboration and Data Sharing in Inter-Organizational Infrastructure Construction Projects**Maryam R. Nezami <sup>1,\*</sup>, Mark L. C. de Bruijne <sup>2</sup>, Marcel J. C. M. Hertogh <sup>1</sup> and Hans L. M. Bakker <sup>1</sup><sup>1</sup> Faculty of Civil Engineering and Geosciences, Delft University of Technology, Stevinweg 1, 2628 CN Delft, The Netherlands<sup>2</sup> Faculty of Technology, Policy and Management, Delft University of Technology, Jaffalaan 5, 2628 BX Delft, The Netherlands

\* Correspondence: m.rikhtegarnezami@tudelft.nl