भारतीय सूचना प्रौद्योगिकी संस्थान भागलपुर
**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY BHAGALPUR**
(An Institute of National Importance under Act of Parliament)

# SOCIETY ACADEMIA INTERNSHIP SAI-II

**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, BHAGALPUR**

## REPORT

**TOPIC: -Portal to increase Transparency in Govt Departments(Related to Maps of Houses)**

**GROUP – 10**

**1.)  ANUBHAV MISHRA– 2101114CS**

**2.) ASHUTOSH RAI – 2101112EC**

**3.) MD. SOHAIL ANSARI – 2101116CS**

**4.) PRANJAL  MESHRAM – 2101115EC**

**5.) SHIVAM BHAGWAN JHA– 2101119CS**

**DECLARATION**

This report has been prepared on the basis of team work. Where other published and unpublished source materials have been used, these have been acknowledged.

**SUBMITTED TO: -**

Dr. Om Prakash Singh

Dr. Chetan Barde

Dr. Sunil Kumar Singh

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# ABSTRACT

The primary objective of the Urban Development Authority Blueprint Submission Portal is to streamline the process of submitting house proposed map, enhance transparency, and reduce corruption by providing a fair and accountable system for house planning approval.

The Urban Development Authority Blueprint Submission Portal represents a transformative step towards modernizing urban development processes. It streamlines blueprint submissions, enhances transparency, and reduces corruption in blueprint approval, offering a fair and accountable system. This innovative platform not only benefits urban planners and developers but also serves the greater public interest by ensuring that urban development aligns with the city's vision and is conducted in a more ethical and transparent manner.

On the other hand, The general public benefits from a more transparent and accountable system, which ensures that development projects align with the city's long-term vision and public interest. Moreover, it simplifies the process for individuals seeking approvals for their home construction or renovation projects, making it more accessible and efficient.

# 1.) INTRODUCTION

The Urban Development Authority Blueprint Submission Portal is a groundbreaking initiative addressing key urban development aspects systematically. It streamlines blueprint submission, saving time and reducing bureaucracy. Emphasizing transparency through real-time tracking and clear guidelines enhances trust and ensures projects align with public interest. Additionally, it combats corruption by providing a level playing field, granting approvals based on blueprint merit and compliance, not personal connections. In sum, it's a commendable step towards a more efficient, transparent, and corruption-free urban development process, benefiting planners and the public.

The initiative is a commendable step toward modernizing urban development. It streamlines blueprint submissions, saving time and reducing administrative burdens. Its emphasis on transparency fosters trust and aligns projects with public interests. Real-time tracking and clear guidelines reduce corruption risks. This transparency benefits both urban planning stakeholders and the public. Furthermore, the portal's dedication to reducing corruption is significant. It provides an impartial, standardized blueprint approval process, ensuring approvals based on merit and compliance, not personal connections. In sum, the Urban Development Authority Blueprint Submission

Portal simplifies urban development, enhances transparency, and combats corruption for the benefit of planners, developers, and the public.

## 2.) PROBLEM STATEMENT

In the context of the problem statement for the report, the primary issue at hand is the prevalent reliance on manual management processes as opposed to automation. This reliance has led to problems such as corruption, which needs to be eradicated at its grassroots level. Furthermore, a lack of public awareness regarding their rights has exacerbated these challenges. To tackle this, our proposed website aims to emphasize the importance of automation and the intelligent use of technology as a means to address these problems. As a case study, we can examine the operations of Urban Development Authorities in major cities.

Our proposed platform offers a comprehensive solution by enabling the direct submission of proposed maps and implementing a robust update and grievance system. This approach ensures timely approvals for the general public. Users will be required to register on the website using their

Aadhaar digital ID, which serves as a secure means of identification. Proposed map submissions will be categorized, and applicants will be provided with deadlines based on the scale and complexity of their construction projects. The manual review process by the relevant officers will be conducted, and approvals will be granted within the specified deadlines. In the event of any issues with the proposed designs, officers must provide valid explanations supported by relevant regulations to the applicants.

This solution significantly reduces the need for manual work and, through the integration of automation, offers the potential to substantially mitigate corruption.

## 3. System analysis

### 3.1 Existing system:

The prevailing process for map approval is characterized by direct interactions between applicants and officials, a situation that fosters an environment in which bribes are routinely sought. The absence of robust checks and balances to monitor the discretionary power vested in these officers perpetuates the susceptibility to exploitation. Consequently, this manual and non-automated approach

stands as the fundamental catalyst behind the widespread prevalence of corruption within the system.

**Advantages:**

- Reduces corruption and bribery by providing a transparent and accountable approval process.
- Streamlines the blueprint submission process, reducing paperwork and improving efficiency.
- Empowers applicants with information about the status of their submissions.
- Enhances public trust in the Urban Development Authority.

**Challenges:**

- Ensuring data security and protecting sensitive blueprint information.
- Ongoing training and awareness programs to promote transparency and ethical conduct.

## 3.2 Proposed system:

Users will be required to register on the website using their AADHAR digital ID and upload their proposed maps. The submissions will be categorized, and applicants will receive deadlines based on the project's scope. The concerned officer will manually review the submission and provide approval within the set timeframe. If issues arise, the officer must furnish a valid explanation backed by regulations. This automated approach reduces manual work and, in turn, curtails corruption significantly. Individuals will have the right to raise tickets, and for consistent delays, they can claim compensation, urging prompt grievance resolution and holding accountable the responsible government officers. The overarching goal is to reduce human intervention and contact between individuals and government officers, thereby minimizing grassroots corruption.

**Features of the Proposed System:**

**1. User Registration and Authentication:**

- Users will be required to register with their personal information, ensuring accountability.

- User roles will include "Applicants" and "Officers."

**2. Blueprint Submission:**

- Applicants can submit house blueprints through an easy-to-use online form.

- The form should include fields for contact details, blueprint files, project descriptions, and any other relevant information.

**3. Officer Review Panel:**

- Authorized officers can log in to the portal to review submitted blueprints.

- Officers can view the blueprint details and associated documents.

**4. Approval and Rejection:**

- Officers can either accept or reject blueprints.

 - If rejected, officers must provide valid and clear reasons for rejection, promoting transparency and accountability.

## 5. Resubmission Process:

- If a blueprint is rejected, the system will provide a specified timeline for the applicant to address the issues and resubmit the corrected blueprint.

 - The applicant can track the progress of their submission through the portal.

6. **Reporting and Analytics:** Robust reporting and analytics capabilities will provide organizations with insights into their donation pipeline, wastage trends, and the impact of their efforts. This data-driven approach can guide decision-making and resource allocation.

7. **Security and Privacy:** The system will incorporate robust security measures to safeguard sensitive

donor and beneficiary information, ensuring compliance with data protection regulations.

## Goals of the Proposed System:

### Goal:

- Establish an automated map approval system to reduce corruption and enhance efficiency in government processes.

### Milestones:

### 1. Platform Development and Launch:

- Develop a user-friendly website for map submissions and registrations.

- Implement integration with the Aadhaar digital ID system for user authentication.

- Launch the platform to the public.

### 2. Categorization and Deadline Implementation:

- Set up a mechanism to categorize proposed maps based on construction complexity and value.

- Determine and assign deadlines to applicants in accordance with the project scope.

## 3. Manual Review and Approval:

- Train government officers on the use of the system.

- Implement the manual review process by the concerned officer.

- Ensure approvals are granted within the specified deadlines.

## 4. Grievance Resolution and Accountability:

- Introduce a user-friendly ticketing system for raising concerns and grievances.

- Define a process for addressing consistent delays.

- Establish a compensation system for eligible individuals to expedite grievance resolution and hold accountable government officers responsible for delays.

## 5. Public Awareness and Education:

- Develop and disseminate informative materials on the platform and individual rights.

  - Educate the public on how to use the system effectively and transparently.

## 6. Monitoring and Continuous Improvement:

- Implement monitoring mechanisms to track system performance and user feedback.

  - Regularly review the platform for necessary updates and improvements based on feedback and evolving needs.

## 7. Reduced Human Interference:

  - Ensure a significant reduction in direct human contact between individuals and government officers through the automation and transparency of the system.

## 8. Corruption Reduction and Efficiency Enhancement:

- Measure the reduction in corruption incidents within the map approval process.

- Evaluate the overall efficiency gains achieved through automation.

## 9. Sustainability and Expansion:

- Plan for the long-term sustainability of the system.

- Explore opportunities to expand the use of similar automated platforms in other government processes.

## 10. Public Satisfaction and Trust:

- Gauge public satisfaction and trust in the improved map approval process through surveys and feedback channels.

## Advantages:

- Reduces corruption and bribery by providing a transparent and accountable approval process.
- Streamlines the blueprint submission process, reducing paperwork and improving efficiency.

- Empowers applicants with information about the status of their submissions.
- Enhances public trust in the Urban Development Authority.

**Challenges:**

- Ensuring data security and protecting sensitive blueprint information.
- Ongoing training and awareness programs to promote transparency and ethical conduct.

## 5.) KEY COMPONENTS OF the Map Portal

### User and Admin Login Portal:

- Implementation of a secure login portal for both users and administrators to access the system.

### Separate Admin and User Login with Predefined Credentials:

- Distinct login interfaces for users and administrators with predefined access credentials to ensure secure authentication and separate access rights.

### User Portal Features:

- After user login, users gain access to a set of features, including map upload options, the ability to review past map submission history, and the capability to track status updates and address grievances.

### New Map Uploadation Option:

- Users are provided with an intuitive interface to upload new map proposals, streamlining the submission process.

**Past Map Submission History:**

- Users can access their previous map submissions, facilitating reference and tracking of their historical activities.

**Status and Grievance Updates:**

- Users have the capability to check the current status of their map submissions and receive updates on any grievances or concerns.

**Admin Approval Process**:

- Once a user submits a map, the system routes it to the administrator for review and approval, ensuring that maps are checked by relevant authorities.

These components collectively establish a user-friendly and secure system with differentiated access for users and administrators, facilitating map submissions and the approval process. Users can conveniently track their map submissions and receive updates on their status and grievances.

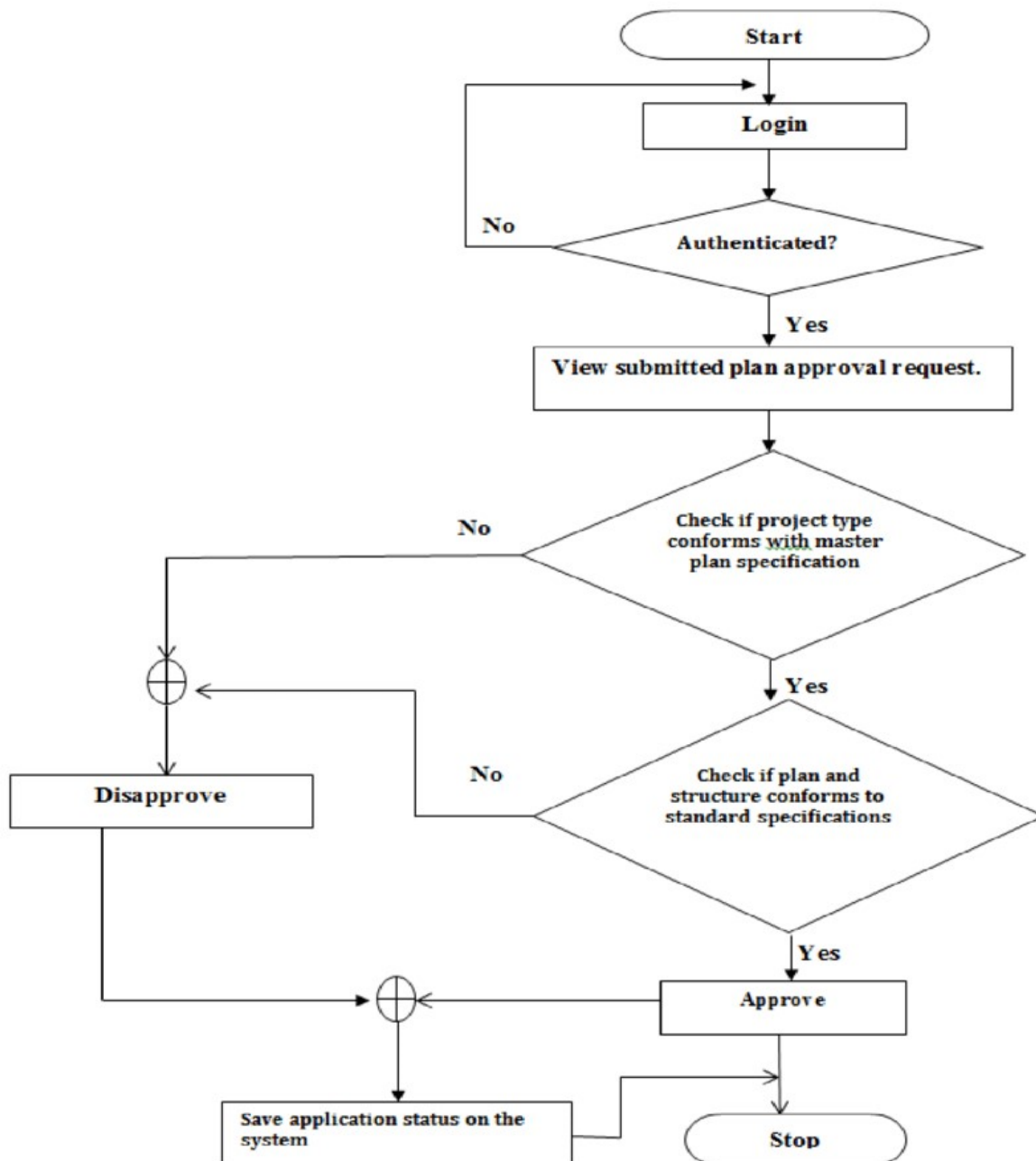## 6.) TECHNOLOGY STACK INVOLVED:

**Website Development Using Latest Technologies:**

- Creation of the website leveraging state-of-the-art technologies for a modern and efficient user experience.
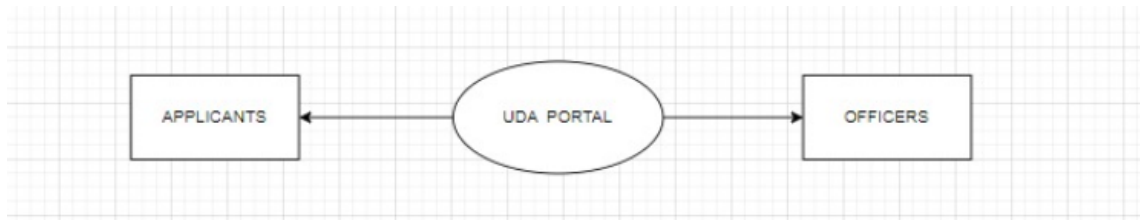
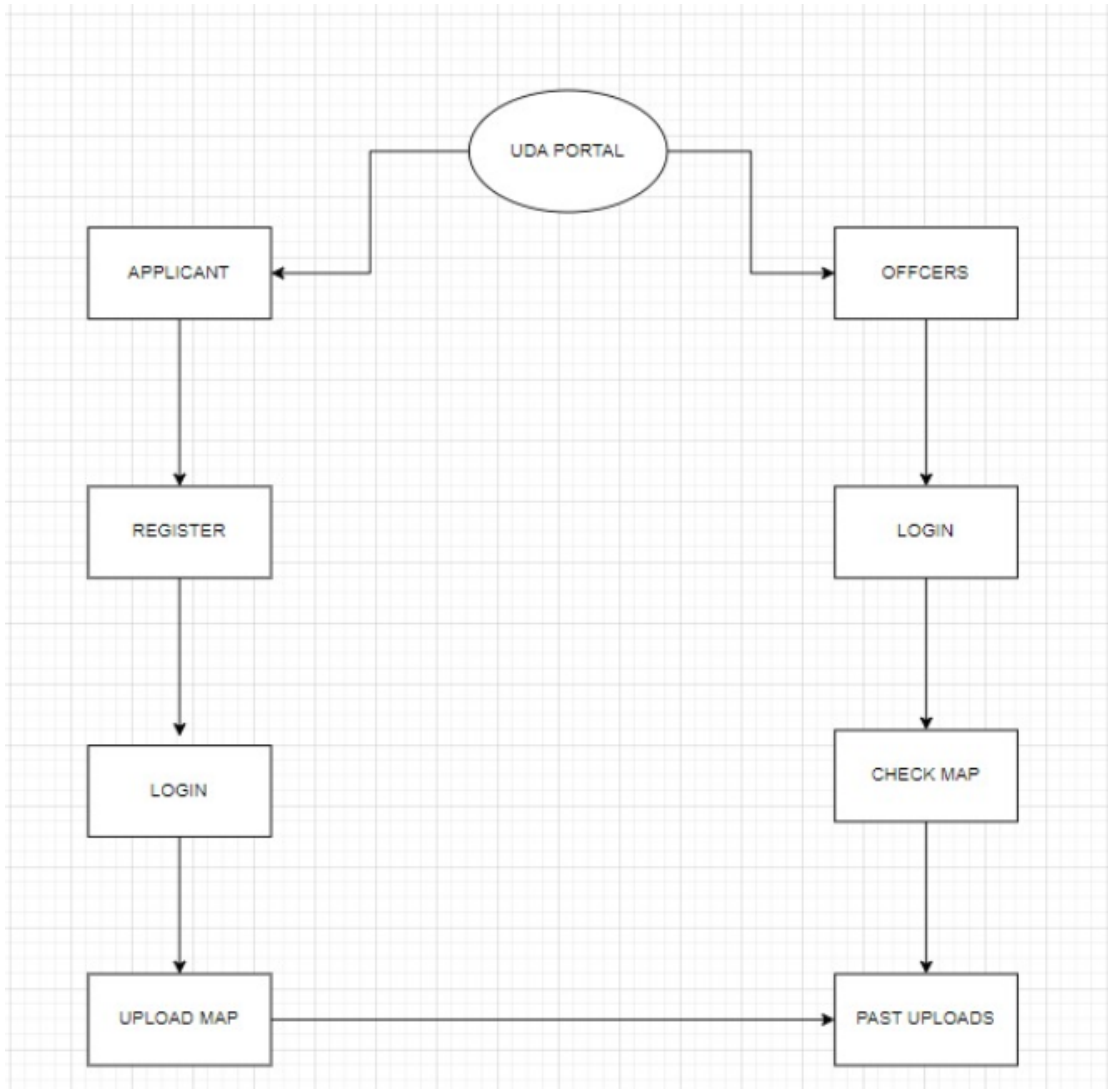**HTML and CSS**

**Bootstrap, ReactJs,Node Js Mongo DB**

**FLOWCHART:**

**Start**

**Login**

No

**Authenticated?**

Yes

**View submitted plan approval request.**

No

**Check if project type conforms with master plan specification**

Yes

No

**Check if plan and structure conforms to standard specifications**

Yes

**Disapprove**

**Approve**

**Save application status on the system**

**Stop**

# 0 Level  DFD

APPLICANTS ← UDA PORTAL → OFFICERS

# 1 Level  DFD

UDA PORTAL

APPLICANT

OFFCERS

REGISTER

LOGIN

LOGIN

CHECK MAP

UPLOAD MAP → PAST UPLOADS

## 7.) CONCLUSION

In conclusion, the project presents a holistic solution to address the systemic challenges that have long plagued the map approval process. By harnessing the power of technology and automation, this initiative endeavors to modernize and optimize the existing system, thereby enhancing its overall efficiency and transparency, while simultaneously mitigating the risks of corruption.

The central tenets of the project include a user-friendly interface for individuals, where the registration process is fortified through Aadhaar digital IDs, and a streamlined mechanism for the submission of proposed maps. These submissions are subject to systematic categorization, with applicants receiving deadlines that are commensurate with the scope and complexity of their construction projects. The involvement of concerned officers in the manual review process, and the provision of approvals within predetermined timeframes, ensures timely decision-making while maintaining a robust system of checks and balances.

However, the project is not merely about reducing bureaucratic hurdles and enhancing efficiency; it also seeks to instill a culture of accountability. In the event that issues are identified during the review process, officers are obliged to furnish valid explanations grounded in

regulatory frameworks. This accountability aspect serves as a deterrent against corruption, as officers are held responsible for their decisions.

Furthermore, the project places a significant emphasis on transparency and the empowerment of individuals. By granting them the right to raise tickets for grievances and compensations for consistent delays, it underscores the importance of public participation and ensures that their concerns are addressed with urgency. These measures also hold government officers accountable for any lapses, thereby reinforcing the principle of good governance.

Ultimately, the overarching goal of the project is to reduce human intervention and direct contact between individuals and government officers. This, in turn, facilitates a substantial reduction in grassroots corruption, fostering a more accountable and efficient government process that can serve as a model for similar initiatives across different sectors and regions. By leveraging the transformative potential of automation and technology, the project takes a significant step toward the realization of these objectives.

## 8.) REFERENCES

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