FYP I – Comprehensive Survey Report

Project Title: <u>Constituency Connect</u>

Supervisor: <u>Ms. Farkhanda Qamar</u> Project No: _____

Sr. No.	Registration No.	Student Name
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Project Complexity:

Role-based authorization:

Role-based authorization using JWT tokens for multiple user roles like constituents and representatives, admin, and coordinator, each with distinctive features and permissions.

Complex Data Handling:

Many interconnected data pieces, such as users, complaints, surveys, and events, must be managed accurately.

Authentication and Security:

Strong security measures, including secure logins and data protection via encryption and hashing, to protect user information.

Real-Time Features:

Real-time updates when complaint status changes and event notifications

Performance Tracking:

Representatives' performance is tracked and displayed using charts and graphs, requiring advanced data processing and visualization.

User Experience and Interface Design:

- An intuitive and accessible user interface that caters to diverse user groups.
- Ensures responsive design and seamless user interactions across devices.

Customizable Reports:

Customizable reports on various metrics, such as complaint resolutions and constituent engagement, involve complex data aggregation and presentation.

Multi-language Support:

If the application is designed for diverse users, providing multi-language support will add complexity by requiring translation features and language-specific content handling.

Technological Aspects:

Frontend:

1. HTML5
2. CSS3
3. Tailwind CSS
4. Bootstrap
5. JavaScript
6. React JS
7. Redux Toolkit
8. Material UI
9. React Hook Form
10. React Router

Backend:

1. Node JS
2. Express JS

Database:

1. MongoDB
2. Mongoose

Authentication and Authorization:

1. Clerk

Potential Impact on Society:

Constituency Connect aims to create a society where people are more connected to their representatives, government actions are more transparent, and citizens are empowered to make their voices heard. This project has the potential to lead to better governance and a higher quality of life for everyone involved.

- **Improved Communication:** The project will establish a direct communication channel between constituents and their representatives. This will make it easier for people to voice their concerns and ensure that they are addressed. This improved communication will help foster trust and make people feel heard by those in power.
- **Increased Accountability:** Representatives will be more accountable to their constituents, as the system allows constituents to track the performance of their representatives.
- **Enhanced Civic Engagement:** The platform motivates citizens to take part in surveys, join virtual meetings, and give feedback on resolved complaints.
- **Efficient Problem Resolution:** The system's ability to route complaints to the right department and prioritize urgent issues ensures quicker and more effective problem-solving.
- **Data-Driven Decision-Making:** Representatives can use the feedback and data collected through the system to make informed decisions that better serve their communities.
- **Empowered Citizens:** Constituents can stay informed about their representatives' activities and hold them accountable, leading to a more empowered and engaged citizenry.
- **Transparency in Governance:** By providing clear statistics and updates, the system fosters transparency in governance, helping to build trust between representatives and their constituents.

Citizens can see how their representatives are performing and stay informed about the actions being taken in their community.

Benchmarking:

Features	Constituency Connect	FixMyStreet	SeeClickFix	Neighbourland
Profile Management	Yes, detailed profiles with editable information	Limited to basic profile management	Yes, basic profile management	Yes, basic profile management
Complaint Reporting	Yes, including anonymous reporting and detailed tracking	Yes, report local problems to the council	Yes, allows reporting issues to local authorities	No, focuses on community engagement
Complaint Tracking	Yes, with full history and status updates	Limited tracking, focus on reporting	Yes, with status updates	No, Does not focus on tracking
Complaint Prioritization	Yes	No	No	No
Automated Complaint Routing	Yes	Yes	Yes	No
Virtual Meetups	Yes	No	No	Yes
Surveys and Polls	Yes, Representatives can create and analyze survey	No	No	Yes
Event Calendar	Yes, Representatives can post upcoming events and public meetings	No	No	No
Security	Standard	Standard	Standard	Standard
Feedback	Yes, Feedback about problem resolution	Yes	Yes	Yes

Performance Metrics	Yes, tracks and displays performance metrics of representatives	No	No	No

Project Features List:

- Complaint Reporting
- Complaint Forwarding to the respective department
- Complaint Prioritization
- Surveys and Polls
- Real-time Analytics
- Complaint Tracking Dashboard
- Submission and Resolution Stats
- Detailed Complaint View
- Virtual Meetups
- Video Conferencing
- Anonymous Reporting
- Confidential Submissions
- Service Feedback
- Event Calendar

FYP Project Report Evaluation: (For Official use only)

Criteria	Good	Normal	Inferior
Project Complexity			
Technological Aspect			
Potential Impact on Society			
Benchmarking			
Project Features			

Suggestions/Remarks: _____

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Name of Examiner	Date	Signature

Definition of Terms:

i. **Project Complexity:** Project complexity is referred to as the degree of significant contribution that a group of students will put in the design and development of project, spanning over two academic semesters. Secondly, determine if the domain of the project marks the standard of complexity required from a bachelor's student degree, as this project will determine the skills they learnt throughout the degree.

ii. **Technological Aspects:** Technological aspects of the project means tools/technologies and language(s) used to develop it.

iii. **Potential Impact on Society:** Determine how much impact the product could have in its stated strategy for a society or community/focused group.

iv. **Benchmarking:** The proposed project should be compared with existing similar type of works. A **_comparison table_** is more helpful for comparative view, listing features of existing works and proposed project.

v. **Project Features:** Verify that the features mentioned are complete and significant enough for an FYP project.