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# WEB APPLICATION DEVELOPMENT

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Proposal



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## **1.Executive Summary**

The development of a thorough web application intended to act as a central information source for a particular ward is described in this proposal. The application will offer comprehensive details about a range of public and private establishments in the ward, such as community centers, hospitals, schools, and other crucial services. The objective is to provide a user-friendly, approachable platform that improves community involvement and makes significant local resources easier to access.

## **2. Introduction**

Residents in contemporary urban contexts must have rapid and accurate access to information about institutions and services in the area. The purpose of this web application is to close the information gap by providing a centralized, user-friendly platform with comprehensive details about the ward's features and services.

## **3.Objectives**

- Provide a comprehensive directory of all public and private institutions within the ward.
- Facilitate easy access to contact information, addresses, and service details of these institutions.
- Enhance community engagement and awareness of local resources.
- Offer a platform for community announcements and updates.

## 4. Scope

The ward's following regions will be covered via the web application:

- **Educational Institutions:** Information about all public and private schools, including phone numbers, curriculum, extracurricular activities, and academic offerings.
- **Healthcare Facilities:** Details on services offered, emergency phone numbers, and operating hours for hospitals, clinics, and pharmacies.
- **Community Centers and Recreational Facilities:** Locations, phone numbers, and descriptions of events and activities for community centers and recreational facilities.
- **Public Services:** Details on municipal services, police and fire stations.

## 5. Pages and Features

### 5.1 Home Page

- **Overview:** Introduction to the ward and its key features.
- **Search Bar:** Centralized search function for finding institutions and services.
- **Quick Links:** Access to popular categories such as schools, hospitals, and public services.
- **Announcements:** Latest news and updates relevant to the ward.

### 5.2 Schools Page

- **Categories:** Separate sections for private and government schools.

- **School Listings:** Detailed profiles for each school including:
  - Name and address
  - Contact information
  - Academic programs and extracurricular activities
  - Facilities available
  - Admission procedures
- **Search and Filter:** Options to filter by type (private/government), grade levels, and other criteria.

### **5.3 Healthcare Facilities Page**

- **Categories:** Sections for hospitals, clinics, and pharmacies.
- **Facility Listings:** Detailed profiles for each healthcare facility including:
  - Name and address
  - Contact information
  - Services offered
  - Emergency contact numbers
  - Operating hours
- **Search and Filter:** Options to filter by type of facility and services offered.

### **5.4 Community Centers and Recreational Facilities Page**

- **Categories:** Sections for community centers, parks, and recreational facilities.
- **Facility Listings:** Detailed profiles for each facility including:
  - Name and address
  - Contact information
  - Activities and events
  - Membership information (if applicable)
- **Search and Filter:** Options to filter by type of facility and activities.

### 5.5 Public Services Page

- **Categories:** Sections for police stations, fire stations, and municipal services.
- **Service Listings:** Detailed profiles for each service including:
  - Name and address
  - Contact information
  - Services provided
  - Emergency contact numbers
  - Operating hours
- **Search and Filter:** Options to filter by type of service.

### 5.6 Commercial Establishments Page

- **Categories:** Sections for local businesses, shops, and markets.
- **Business Listings:** Detailed profiles for each business including:
  - Name and address
  - Contact information
  - Products or services offered

- **Operating hours**
- **Search and Filter:** Options to filter by type of business and services offered.

### **5.7 Announcements and Updates Page**

- **News and Updates:** Latest announcements and news relevant to the ward.
- **Event Calendar:** Information on upcoming community events and activities.
- **Community Board:** Platform for residents to post notices and announcements.

### **5.8 Contact Us Page**

- **Contact Form:** For residents to send inquiries or feedback.
- **Contact Information:** Email addresses, phone numbers, and physical addresses for the ward offices.

### **5.9 Medicine Page**

- **Medicine Overview:** Medicine Overview: Introduction to healthcare services provided by the ward, including information about the availability and distribution of medicines.
- **Special Programs:** Details about any special healthcare programs or initiatives related to medicine distribution, such as immunization drives or chronic disease management programs.

### 5.10 Social Awareness Program Page

- Introduction to the social awareness programs initiated by the ward.
- Explanation of the importance of social awareness and community involvement

### 5.11 Feedback Mechanism Page

- Allow residents
- to provide feedback on social awareness programs.
- Include a form or survey for residents to share their opinions, suggestions, or ideas for future initiatives.

## 6. Technical Details:

- **Frontend:** Angular, HTML, CSS, JavaScript, and Bootstrap are used to create a responsive and dynamic user interface.
- **Backend:** Using Node.js and Express.js, this server-side application is scalable and effective.
- **Database:** For scalable and adaptable data storage, MongoDB is used.
- **Hosting and Deployment:** To guarantee good performance and availability, hosting should be done on a dependable provider.

## 7. Implementation Plan

### Phase 1: Planning and Requirements Gathering

- Identify all necessary features and gather detailed requirements from stakeholders.

### Phase 2: Design and Prototyping

- Create wireframes and prototypes to visualize the application layout and user experience.

### Phase 3: Development

- Implement the frontend and backend components, integrating the database and developing key features.

### Phase 4: Testing

- Conduct thorough testing to identify and fix bugs, ensuring the application is robust and user-friendly.

### Phase 5: Deployment and Launch

- Deploy the application to a cloud server and launch it for public access.

### Phase 6: Maintenance and Updates

- Provide ongoing support, maintenance, and updates to keep the application running smoothly and to add new features as needed.

## 8. Budget and Resources

- **Development Costs:** Including salaries for developers, designers, and project managers.
- **Infrastructure Costs:** Hosting, SSL certificates.
- **Miscellaneous:** Any additional costs such as software licenses, office supplies, and administrative expenses.



➤ Total Estimated Budget

Development Costs	Rs. 325,000
Infrastructure Costs	Rs. 40,000
Miscellaneous Costs	Rs. 50,000
DevOps	Rs. 60,000
Testing and QA	Rs. 45,000
Contingency	Rs. 40,000
Grand Total	Rs. 560,000

➤ Recursion Cost = Rs,50,000

## 9. Conclusion

The proposed web application will serve as a valuable resource for the residents of the ward, offering easy access to important information and enhancing community engagement. With a well-planned development process and a focus on user needs, this application has the potential to significantly improve the quality of life within the ward.