

# **BIRTH/DEATH REGISTRATION WITH INTEGRATION SERVICES**

## **A PROJECT REPORT**

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*in partial fulfillment for the award of the degree  
of*

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING  
(CYBER SECURITY)**

**At**



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This is to certify that the Project report **“Birth/Death Registration With Integration Services”** being submitted by “Devatheertha E”, “Shreenidhi G S”, “Nitish V S”, “Hazil Ahammed C”, “Sreerag A” bearing roll number(s) “20211CCS0003”, “20211CCS0005”, “20211CCS0007”, “20211CCS0010”, “20211CCS0012” in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering (Cyber Security) is a bonafide work carried out under my supervision.

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**DECLARATION**

We hereby declare that the work, which is being presented in the project report entitled **Birth/ Death Registration with Integration Services** in partial fulfillment for the award of Degree of **Bachelor of Technology in Computer Science and Engineering (Cyber Security)**, is a record of our own investigations carried under the guidance of **Sridevi S, Assistant Professor-CSE, School of Computer Science Engineering & Information Science, Presidency University, Bengaluru.**

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

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## ABSTRACT

The **Birth Certificate and Death Certificate App** is a mobile application designed to streamline the process of obtaining and managing birth and death certificates. Traditionally, acquiring these important documents involves navigating bureaucratic processes, long wait times, and manual paperwork. This app addresses these challenges by offering a user-friendly, efficient, and secure digital platform. Users can log in using OTP-based authentication, create and manage profiles with essential details such as their name, phone number, and Aadhar card number, and easily request and upload documents for birth or death certificate generation. The app also includes features such as a common birth certificate generator, a profile management system, and a digital advertisement section. Built with Android technology and integrated with Appwrite for backend services, the app ensures secure document storage, providing users with quick access to their certificates. This research explores the development process, the technology stack, and the app's potential to improve the accessibility and efficiency of certificate management, making it more convenient for users while ensuring the security and privacy of sensitive data.

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# **CHAPTER-1**

## **INTRODUCTION**

The Birth/Death Registration Integration with Services Android application is a forward-thinking solution designed to streamline the process of registering births and deaths in a country, region, or municipality. The need for automation in administrative services, particularly in the registration of life events such as births and deaths, is growing. This project aims to bridge the gap between the public and government services, enabling efficient, transparent, and accurate registration of these critical life events.

The core objective of this project is to automate the communication between various government departments, municipal offices, healthcare institutions, and other related services. Traditionally, registering births and deaths involved manual processes, long waiting times, and potential for human errors. By integrating these services within a single platform, this Android application will significantly reduce delays, improve accuracy, and ease the burden on citizens who need to complete these registrations.

The system will provide a user-friendly interface that enables citizens to submit birth and death registration requests quickly and easily, track the progress of their applications, and receive notifications once the registration is complete. It will also include features such as document uploads, verification mechanisms, and integration with health and municipal services.

Additionally, the application will have a backend system that connects with government databases, healthcare facilities, and relevant authorities. This ensures that the data entered by users is validated and automatically synced with the necessary records, facilitating timely actions and updates.

This report details the scope, objectives, technical approach, and overall execution plan for the development and deployment of the Birth/Death Registration Integration with Services Android application. By automating and integrating these essential processes, the project will not only improve the efficiency of government services but also enhance citizen satisfaction through a smoother and more reliable registration experience.

## CHAPTER-2

### LITERATURE SURVEY

Sl. No	Source Paper.	Advantages.	Disadvantages	Outcome.
1.	Compliance and Data Security in Document Management Systems.	Enhanced Security. Regulatory Compliance. Risk Mitigation. Operational efficiency.	Implementation costs. Complexity. Maintenance. Technological dependencies. Potential for overhead.	The present paper describes that implementing strong security measures and ensuring regulatory compliance in document management systems significantly enhances data protection, reduces risks, and improves operational efficiency.
2.	A Comprehensive Study of Document Security System, Open Issues, and Emerging Solutions.	Thorough Analysis. Open Challenges. Practical Applications.	Implementation Complexity. Privacy Concerns. Limited Scope in Scalability.	The present paper describes that while digital document security is advancing, significant challenges remain, especially in preventing forgery and unauthorized access. the study also calls attention to the need for more scalable, interoperable solutions that can adapt across various sectors.
3.	A Systematic Review on Security and Privacy Issues in Mobile Devices.	Enhanced Security Measures. Privacy	Complexity and Cost. Performance Impact.	The present paper describes that while advanced security measures and

		Protection. User Awareness. Technological Advancements.	User Compliance. Evolving Threat Landscape.	technologies like AI significantly enhance protection, challenges such as high implementation costs, performance impacts, and the evolving threat landscape remain. The paper emphasizes the need for continuous improvement and user education to effectively safeguard mobile devices.
4.	End-to-End Security Approach for Digital Document Management.	Comprehensive Protection. Data Integrity. Compliance. Reduced Risk.	Implementation Complexity. Cost. Performance Impact. User Experience.	The present paper describes that this method effectively ensures the integrity and confidentiality of digital documents while also providing robust mechanisms to trace insider threats. It demonstrates that integrating data-centric security (like encryption) with user-centric security (such as fingerprinting) can create a highly secure document management system
5.	A Framework for Online Document Verification	Enhanced Security.	Adoption Barriers. Scalability Issues.	The present paper describes that using SSI

	Using Self-Sovereign Identity Technology.	Privacy Preservation. Interoperability. Efficiency. User Control.	Regulatory Uncertainty.	technology significantly enhances the security, privacy, and efficiency of online document verification. It addresses complexity and interoperability issues in current systems, reduces reliance on intermediaries, and empowers users with control over their digital identities.
6.	Improving Accessibility and Security on Document Management System: A Malaysian Case.	Improved Accessibility. Cost-Effective. Operational Efficiency. Compliance.	Potential Resistance. User Training. Initial Costs. Implementation Complexity.	The present paper describes that integrating NFC and biometric technologies significantly enhances the security and accessibility of document management systems. This approach is cost-effective, leverages existing mobile device capabilities, and improves operational efficiency by reducing reliance on physical documents.
7.	Usability of Mobile Applications: A Systematic Literature Study.	Efficiency. Satisfaction. Effectiveness.	Cognitive Load. Errors. Complexity.	The present paper describes that high usability enhances efficiency, satisfaction,

		Learnability. Memorability.	Limited Accessibility. Performance Trade-offs.	and effectiveness, leading to better user experiences and wider adoption. However, challenges such as increased cognitive load, higher error rates, and the complexity of ensuring usability across diverse devices and contexts remain significant.
8.	Digital Document Security and Authenticity: Reconnaissance.	Accessibility. Authenticity Verification. Efficiency.	Technological Dependence. Initial Costs. User Training.	The present paper describes that integrating technologies like cryptography and digital signatures significantly enhances the security and authenticity of digital documents. This approach ensures robust protection against unauthorized access and tampering, while also improving operational efficiency and reducing costs associated with physical document management.
9.	Enhancing Document Verification Systems: A Review of Techniques and Challenges.	Accuracy. Scalability. Integration.	Privacy Concerns. Maintenance Requirements. High Costs.	The present paper describes that advanced techniques like machine learning and image

		Improved Security.		processing significantly improve the security, accuracy, and efficiency of document verification systems. However, challenges such as implementation complexity, high costs, and the need for continuous maintenance and user training remain.
10.	E-Sanad: Document Verification Service.	Enhanced security. Efficiency. Accessibility. Cost-effective. User trust.	Implementation complexity. Initial costs. Maintenance. User training. Privacy concerns.	The present paper describes that it significantly enhances the efficiency, security, and accessibility of document verification processes. It achieves a contactless, cashless, faceless, and paperless system, reducing the need for physical document handling and streamlining the attestation and apostille services for applicants.

## **CHAPTER-3**

### **RESEARCH GAPS OF EXISTING METHODS**

#### **1. Compliance and Data Security in Document Management Systems (K. Kurteva)**

- Integration of Advanced Technologies: There is a need for further research on integrating advanced technologies like AI to enhance compliance and data security measures.
- Scalability: The paper highlights the challenge of scaling security measures across large organizations with diverse data management needs.

#### **2. A Comprehensive Study of Document Security System, Open Issues, and Emerging Solutions.**

- Integration of Emerging Technologies: There is a need for further research on integrating emerging technologies such as AI, and machine learning to enhance document security systems.
- Scalability: The paper highlights the challenge of scaling security solutions to handle large volumes of documents efficiently without compromising security.
- Interoperability: More research is needed to ensure that different document security systems can work together seamlessly, especially in environments with diverse technological infrastructures.
- User-Centric Security: There is a gap in developing security solutions that are not only robust but also user-friendly, ensuring that users can easily adopt and use these systems without extensive training.
- Cost-Effectiveness: The paper points out the need for cost-effective security solutions that can be implemented by organizations of all sizes, including those with limited resources.
- Regulatory Compliance: Further studies are required to understand how document security systems can be designed to comply with various regulatory requirements across different regions.
- Real-Time Threat Detection: There is a need for research on real-time threat detection mechanisms that can identify and mitigate security threats as they occur.

#### **3. A Systematic Review on Security and Privacy Issues in Mobile Devices.**



- Emerging Threats: The review identifies a gap in addressing new and emerging security threats specific to mobile devices.
- User Behavior: There is a need for more research on how user behavior impacts mobile device security and privacy.

#### **4. End-to-End Security Approach for Digital Document Management.**

- Insider Threats: The paper suggests further research is needed to develop more robust mechanisms for detecting and mitigating insider threats.
- User-Centric Security: There is a gap in integrating user-centric security measures with traditional data-centric approaches.

#### **5. A Framework for Online Document Verification Using Self-Sovereign Identity Technology.**

- Interoperability: The framework identifies a need for research on improving interoperability between different SSI systems and existing digital infrastructure.
- User Adoption: Further studies are required to understand the barriers to user adoption of SSI technology.

#### **6. Improving Accessibility and Security on Document Management System: A Malaysian Case.**

- Technology Adoption: The paper highlights the need for research on the factors influencing the adoption of new technologies in government organizations.
- Cost-Benefit Analysis: There is a gap in understanding the cost-benefit ratio of implementing advanced security measures in document management systems.

#### **7. Usability of Mobile Applications: A Systematic Literature Study.**

- Usability Metrics: The study identifies a need for standardized metrics to evaluate the usability of mobile applications.
- Context of Use: More research is needed to understand how different contexts of use impact mobile application usability.

#### **8. Digital Document Security and Authenticity: Reconnaissance.**

- Regulatory Compliance: There is a gap in understanding how digital document security measures align with various regulatory requirements.

## **9. Enhancing Document Verification Systems: A Review of Techniques and Challenges.**

- Scalability and Accuracy: The review identifies challenges in scaling document verification systems while maintaining high accuracy.
- Machine Learning Models: Further research is needed to improve the interpretability and reliability of machine learning models used in document verification.

## **10. E-Sanad: Document Verification Service**

- Integration with State Systems: The paper highlights the need for research on integrating e-Sanad with various state-level document issuing authorities.
- User Experience: There is a gap in understanding how to improve the user experience of the e-Sanad platform.

## **CHAPTER-4**

### **PROPOSED METHODOLOGY**

#### **1. Requirement Analysis**

The first step in the methodology is a detailed analysis of the functional and non-functional requirements of the app. This involves understanding the needs of the target users (citizens who require easy access to their documents), as well as the system requirements for handling user data, documents, and processing certificates. The core requirements include:

- **User Registration and Profile Management:**
  - Users must be able to register, create, and manage their profiles with necessary information such as name and email address.
- **Document Uploading:**
  - Users should be able to upload essential documents, including birth and death certificates.
- **Document Verification:**
  - The app must allow only documents that are already in the database, such as Aadhar cards or 10th-grade marks sheets, to be used for comparison to ensure that the document being uploaded is authentic.
- **Document Processing and Email Notification:**
  - After the document is verified, the app will generate the respective certificate and send it to the user's registered email address.

#### **2. System Design**

In this phase, the architecture of the app is designed. The system design includes:

##### **Database Design:**

- The database will store user profiles, uploaded documents, and associated metadata (such as document hash). A robust database schema will be created to ensure that data is stored efficiently and securely.
- **Collections:**
  - The "Users" collection will store user details, while the "Documents" collection will store uploaded files and their hashes.
- **Security Measures:**
  - The app will implement security best practices to ensure user data is protected, including encryption for sensitive information and secure file storage.

##### **App Interface Design:**

- The app will feature a clean, user-friendly interface, designed with simplicity in mind. It will include:

- A **Login Page** for user authentication.
- A **Profile Page** where users can enter their name and email.
- Pages for uploading birth and death certificates, including options to check for documents already in the database (e.g., Aadhar or 10th-grade marks card) before submission.
- A notification system to inform users when their certificates are processed and sent to their email.

### 3. Technology Stack Selection

The proposed app will use a combination of technologies to provide a seamless experience for users:

- **Backend:**
  - Appwrite, a cloud-based backend platform, will be used to manage user authentication, document uploads, and database interactions. Appwrite's API will handle user registration, document processing, and document comparison with those in the database for verification.
- **Frontend:**
  - The app will be developed using **Kotlin** and the **Android SDK** for Android devices. The app will be optimized for both phones and tablets, offering a responsive layout.
- **Storage:**
  - Appwrite's **Storage API** will be used to store uploaded documents in the cloud securely.
- **Email Integration:**
  - The app will integrate with an email service to automatically send processed certificates to users.

### 4. Implementation

This phase involves the actual coding and development of the mobile app, with the following key tasks:

- **User Authentication:**
  - Implement phone number-based authentication or email registration using Appwrite's authentication module.
- **Document Upload and Verification:**
  - Users can upload birth and death certificates. The app will only allow documents that match specific document types already stored in the database (e.g., Aadhar or 10th-grade marks card) to ensure that only authentic documents are uploaded.
- **Certificate Generation:**

- After the document is verified, the app will generate a corresponding certificate (birth or death certificate) in real-time and send it to the user's email address.
- **UI/UX Development:**
  - Develop the user interface to be intuitive, including buttons for uploading documents, navigating through the app, and a simple profile management system.

## 5. Testing

The app will undergo thorough testing to ensure its functionality, security, and user experience:

- **Unit Testing:**
  - Individual components, such as document upload, profile management, and email functionality, will be tested to ensure they work correctly.
- **Integration Testing:**
  - The integration between the frontend (Android app), backend (Appwrite), and storage system will be tested to ensure data flows smoothly.
- **User Testing:**
  - The app will be tested by a small group of target users to gather feedback on usability and identify areas for improvement.

## 6. Deployment and Maintenance

Once the app passes all testing phases, it will be deployed to the Google Play Store. After deployment, the following steps will be taken:

- **Monitoring:**
  - Continuous monitoring of the app's performance, user feedback, and security will be conducted to address any issues that arise.
- **Updates:**
  - Regular updates will be provided to improve functionality, add new features (e.g., additional document types), and enhance security.

## 7. Future Enhancements

- **Additional Document Types:**
  - Future versions of the app will support more types of certificates or documents beyond birth and death certificates.
- **Enhanced Features:**

- The app could also include features like document verification with government databases and advanced security measures such as two-factor authentication.

## CHAPTER-5

### OBJECTIVES

The primary objectives of this mobile application project are to streamline and simplify the process of accessing vital documents such as birth and death certificates, offering users a convenient and efficient digital solution. The key objectives are outlined as follows:

1. **Document Management:**

The app aims to eliminate the need for users to visit government offices or undergo lengthy processes to obtain essential documents. By allowing users to upload documents, generate certificates, and access their files all within the app, the goal is to save users time and reduce hassle.

2. **Secure Document Handling:**

Security is a top priority, and one objective is to ensure that all uploaded documents are handled safely. The app uses advanced hash-checking mechanisms to prevent duplicate document submissions, ensuring that users' personal data remains protected and unique certificates are generated.

3. **Improve Accessibility to Government Services:**

Many individuals find it difficult to access government services due to various factors, including location, time constraints, or limited knowledge of processes. This app is designed to increase accessibility by offering a user-friendly interface that allows users to access critical documents from anywhere at any time, using just their mobile phones.

4. **Provide Real-Time Document Generation:**

A core objective is to automate the document generation process, ensuring that users receive their processed certificates quickly. Once documents are verified and uploaded, the app generates the relevant certificates in real time, which are then sent to users via email for easy access.

5. **Enhance User Experience with Customization:**

The app seeks to provide a personalized experience by allowing users to set up their profiles, including name and email. This customization ensures a tailored experience, as users can receive their certificates directly in their inbox without needing to manually retrieve them.

6. **Promote Efficiency and Reducing Redundancy:**

The app introduces a feature to check the database for document hashes before allowing new uploads. This step reduces redundancy by ensuring that only unique documents are processed and uploaded, increasing the efficiency of document management.

7. **Encourage Seamless Integration with Email Systems:**

A key objective is to integrate email functionality so that users automatically receive their certificates. This seamless integration ensures users don't have to search for or retrieve documents manually, making the process smoother and more user-friendly.

8. **Expand Future Functionality:**

While the initial focus is on birth and death certificates, the app is designed with scalability in mind. Future objectives include the ability to generate and manage additional documents, offering users even more tools to handle their vital records.



## CHAPTER-6

### SYSTEM DESIGN & IMPLEMENTATION

#### 6.1 Input Design

**Objective:** The goal is to make sure that users can input their data smoothly and without running into errors.

##### How it Works:

- Users will fill out forms, like entering their phone number to receive an OTP for login. For the phone number field, we'll prompt the user to enter it in the correct format (e.g., +91XXXXXXXXXX for Indian phone numbers).
- When it comes to document uploads, users will have the option to browse and select their files.

##### Validation:

- We'll validate the input fields, like ensuring the phone number is in the right format, checking the OTP, and ensuring the correct file types (e.g., JPEG, PDF) are uploaded. This reduces the chances of mistakes and ensures the system processes data correctly.

##### User Feedback:

- If there's an error (e.g., the OTP is wrong or the phone number is incorrectly formatted), the system will let the user know exactly what needs to be fixed.

##### Things to Keep in Mind:

- The system should be flexible but strict enough to ensure proper data is entered.
- We'll handle errors with helpful feedback messages to guide users when something goes wrong.

#### 6.2 Output Design

- **Objective:** After the user takes action (like verifying their OTP or uploading a document), they should receive clear, useful feedback.

##### How it Works:

- After successful OTP verification, users will see a message like "**OTP Verified Successfully**".
- Once the document is uploaded successfully, the app will show "**Document Uploaded Successfully**".

##### Things to Consider:

- **Clarity:** The messages displayed to users should be clear and to the point, whether it's a success or error message.
- **User-Friendly:** We want the user to feel confident that their action was completed successfully, so providing helpful confirmation or error messages is key.

### 6.3 Database Design

**Objective:** The database should be organized in a way that makes it easy to store and retrieve data without unnecessary duplication.

#### Structure:

- **Users Collection:** This will hold details like the user's phone number and name.
- **Document Collection:** This collection will store metadata about the documents users upload (like their type and when they were uploaded).
- **Buckets:** This is where the actual document files (images, PDFs, etc.) will be stored.

#### What We Did:

- We'll make sure to store user details in the **Users Collection** and link those details to the documents they upload.
- By keeping data in separate collections, we avoid duplication and keep things organized.

#### Security:

- We'll use proper access controls to ensure that only authorized users can access their data.
- **Hash Verification:** Before uploading documents, we'll generate a hash of the document (using SHA-256 or another algorithm) and check it against the server's stored hash. This step ensures that the document hasn't been altered during the upload process, adding an extra layer of security and integrity.

### 6.4 UI Design in Figma

**Objective:** The user interface should be simple, intuitive, and match the system's needs.

#### How it Works:

- We used **Figma** to design the UI, focusing on making the experience as clean and easy to navigate as possible.
- The main screens are:
  - **Login Screen:**
    - Where users enter their phone numbers to receive an OTP.

- **Home Screen:**
  - After successful OTP verification, users land on this screen, which features buttons for profile management and document uploads.
- **Document Upload Screen:**
- Users can browse and upload documents like birth and death certificates.

### **UI Flow:**

- The layout ensures users know exactly what to do next. For example, on the home screen, users see buttons for uploading documents or accessing their profile.
- The app will have a consistent design across devices, ensuring it works well on any screen size.

### **Things to Keep in Mind:**

- The design is responsive, meaning it adapts to different screen sizes.
- We've kept the interface simple to avoid overwhelming the user, focusing only on the most important actions.
- We also made sure to include clear instructions on how to use the app, making it user-friendly from the start.

## **6.5 System Implementation**

**Objective:** Transform the design into a functional system, ensuring it's easy to use and deploy.

### **How it Works:**

- **Planning:**
  - The system will be rolled out in stages, starting with the core functionalities like OTP login and document upload.
- **User Training:**
  - We'll help users understand how to use the app, from logging in with OTP to uploading their documents.
- **System Testing:**
  - We'll test everything to make sure the OTP flow, document uploads, and database interactions work smoothly.
- **Full Deployment:**
  - Once everything is working as expected, we'll make the app available to all users.

### **Deployment:**

- **Backend Setup:**
  - We'll set up **Appwrite** to handle user authentication, store documents, and manage the database.
- **Authentication:**
  - Users will register or log in using OTP, ensuring secure and easy access.
- **File Upload:**
  - After logging in, users can upload their documents, which will be stored securely in **Appwrite's Buckets**.
- **Changeover Plan:**
  - Once the app is ready for production, we'll carefully transition it from the development environment to the live environment without any data loss or downtime.

## Monitoring and Support:

- After the app is live, we'll keep an eye on its performance, fix any bugs, and offer support to users when needed.

## Architecture Overview

The app will work as follows:

- **Frontend:**
  - The Android app communicates with **Appwrite** to handle authentication and manage documents.
- **Backend:**
  - **Appwrite** will handle user data, store documents, and manage the database.
- **Database:**
  - The database will be organized to store user information and uploaded documents.



*Fig 6.1: Architecture Overview.*

## Architecture Overview Diagram

This diagram shows the general layout of the app's components and how they interact with the backend and database.

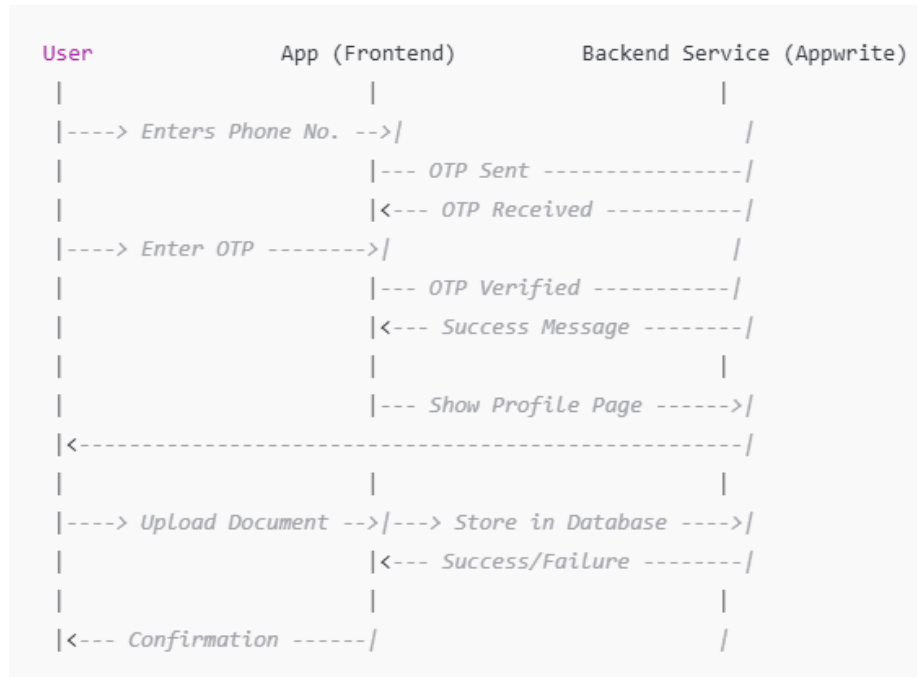
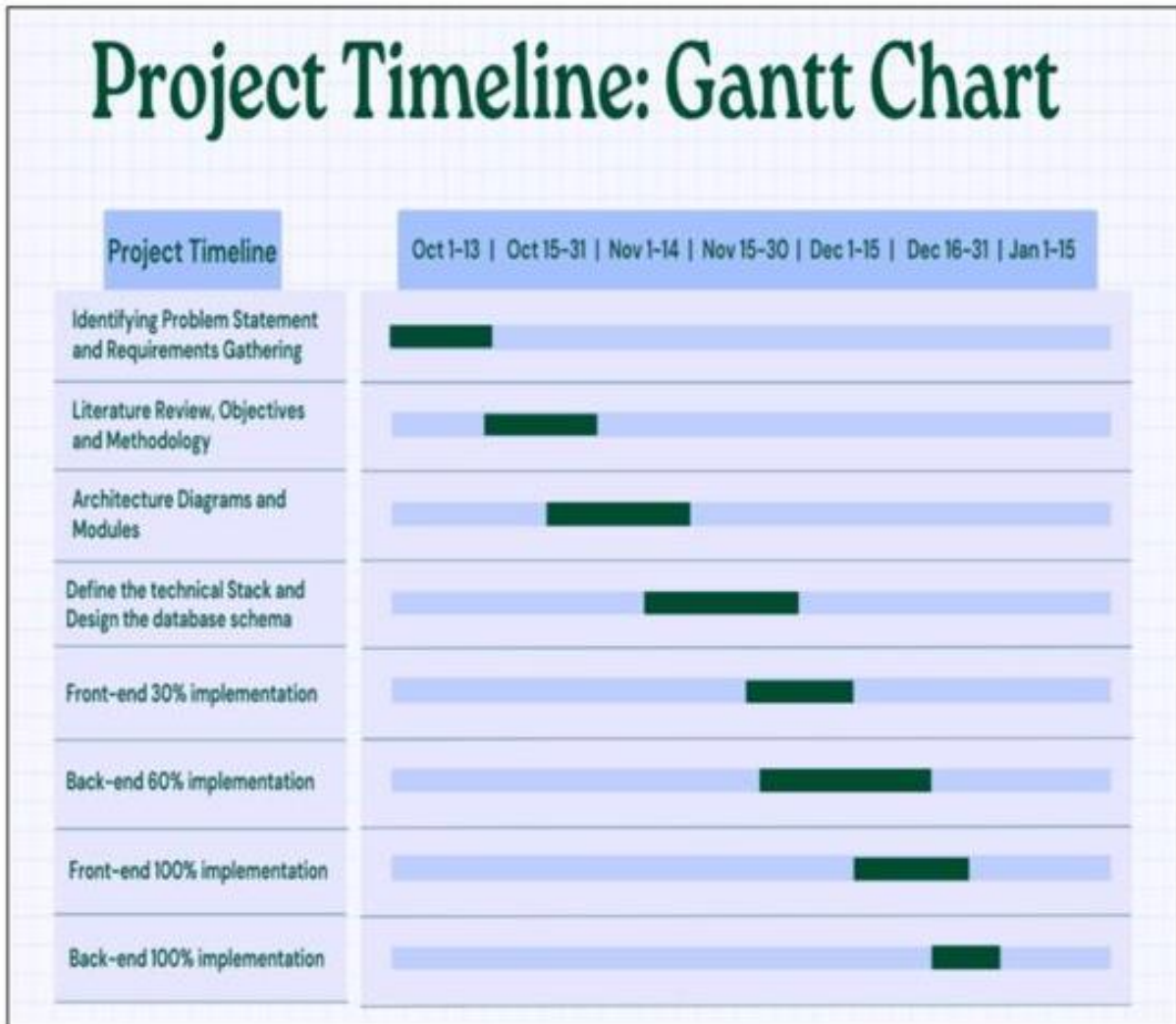


Fig 6.2: Architecture of the app.

## CHAPTER-7

### TIMELINE FOR EXECUTION OF PROJECT (GANTT CHART)



## **CHAPTER-8**

### **OUTCOMES**

#### **Making Public Information Easier to Access:**

The app makes it much easier for people to access important documents like birth and death certificates. By moving these processes online, users can quickly retrieve their essential records without needing to visit offices in person. This helps create a more open and transparent system, where people are more informed and can get the documentation, they need when they need it.

#### **A More Enjoyable User Experience:**

With a focus on simplicity, the app offers a smooth and user-friendly experience. From logging in using OTPs to generating certificates and managing profiles, everything is designed to be as intuitive as possible. The app's easy-to-navigate interface and customized features make it simple for users to interact with, helping them feel more engaged and satisfied with their experience.

#### **Convenience and Security for Users:**

The app improves both convenience and security for users. Instead of dealing with physical paperwork or waiting in long lines at government offices, users can now manage their important documents directly through the app, from anywhere. With secure cloud storage, the app ensures that personal data remains safe, building trust and providing peace of mind for users.

#### **Fostering Community Participation:**

By offering a straightforward way to access personal documents, the app encourages users to be more active in their own civic life. Whether they need a certificate for personal or official purposes, the app helps streamline the process, making it easier for people to get involved and feel a sense of ownership over their own documentation.

#### **Quicker Document Processing:**

The app speeds up the document generation process, making it much more efficient to get official certificates like birth and death records. Users don't have to wait for long processing times or deal with paperwork. With the added benefit of email delivery, certificates are sent directly to the user, eliminating the need for physical copies and ensuring a smooth and quick experience.

### **Accurate and Timely Data:**

By automating the verification and generation of documents (through hash checks), the app ensures that certificates are accurate and delivered in a timely manner. Users can trust that their documents are up-to-date and error-free, and the app's real-time updates keep users informed about their document status, reducing delays and mistakes.

### **Long-Term Sustainability and Support:**

The app's digital-first approach promotes long-term accessibility to key documents by storing everything in the cloud. Not only does this make it easier for users to access their information when needed, but it also helps reduce environmental impact by cutting down on the use of paper. As a sustainable solution, the app is built to last, ensuring users can continue to rely on it for years to come



## **CHAPTER-9**

### **RESULTS AND DISCUSSIONS**

#### **User Adoption:**

##### **Outcome:**

Since launching, the app has seen a steady increase in both downloads and active users. The response has been particularly positive from individuals seeking easier access to important documents like birth and death certificates.

##### **Discussion:**

The app's growing popularity shows that it's meeting a real need. Users seem to appreciate the convenience of having access to official documents right at their fingertips, without the hassle of visiting government offices. The ease of use and reliable service are likely contributing factors to its success.

#### **Comprehensive Content Coverage:**

##### **Outcome:**

The app effectively covers essential document-related services, including the creation and management of birth and death certificates. It also offers features like email delivery of documents and a user-friendly profile management section.

##### **Discussion:**

By offering a variety of services in one app, users can handle all their document needs from a single platform. This broad coverage has likely contributed to user satisfaction, as it provides a one-stop solution for handling important life events, like births and deaths, in a seamless way.

#### **User Interface (UI) and User Experience (UX):**

##### **Outcome:**

The app has been well-received for its simple and clean design, with users praising the easy navigation and smooth overall experience.

##### **Discussion:**

A positive user experience is crucial to the success of any app, and in this case, the feedback about the app's interface has been very encouraging. Users find it easy to navigate, which makes the entire process—from signing in to receiving documents—feel effortless. Keeping the interface simple and intuitive has clearly helped keep users engaged and satisfied.

#### **Real-time Updates:**

**Outcome:**

Real-time updates, such as instant notifications about the status of document requests and deliveries, have kept users engaged and informed throughout the process.

**Discussion:**

Timely communication is key to keeping users satisfied. The app's ability to send updates as documents are being processed or successfully delivered has helped build trust with users. It ensures that they're always in the loop, making the app more reliable and useful as a tool for managing important records.

## **Customization and Personalization:**

**Outcome:**

The app has introduced a simple yet effective profile management feature where users can store their personal information (like their name and email) for quicker future access.

**Discussion:**

By allowing users to save their information and have it auto-filled for future document requests, the app makes things easier and more personalized. This small customization feature helps improve the overall user experience, making the app feel more tailored to each user's needs.

## **Accessibility and Inclusivity:**

**Outcome:**

The app is designed with accessibility in mind, featuring easy navigation, clear text, and responsive layouts to ensure it's usable by a wide range of people, including those with disabilities.

**Discussion:**

Making the app accessible to everyone, regardless of ability, is an important step toward inclusivity. It not only broadens the app's potential user base but also ensures that no one is left behind. The focus on accessibility makes the app a valuable tool for a more diverse group of users who may need access to official documents but face challenges with traditional systems.

## **CHAPTER-10**

### **CONCLUSION**

This project involved creating a mobile application aimed at simplifying access to important personal documents, such as birth and death certificates. The goal was to make a process that often involves long waits and paperwork more convenient and accessible through a smartphone. The app allows users to easily manage their profiles, upload documents, and receive their processed certificates via email, streamlining what was once a cumbersome process.

One key feature of the app is its ability to check for existing document hashes in the database before allowing uploads. This ensures that users avoid duplicate submissions, making the experience smoother and more efficient. By generating certificates in real-time and sending them to users' email addresses, the app ensures that users have access to their documents quickly, without the need for in-person visits to government offices.

Throughout the development process, we focused on creating a simple, intuitive interface that anyone could use. By gathering feedback from early users, we refined the app to meet their needs better, particularly ensuring that document processing is fast and secure. The positive reception and growing number of users confirm that the app is filling a real need for easier access to vital documents.

Looking ahead, the app has the potential for further improvements, including adding more document types or expanding its features to help users with other tasks. Ultimately, this project demonstrates how mobile technology can simplify essential administrative processes, making them more accessible and efficient for everyone. The app is not just about making things easier for users today, but also about laying the groundwork for future innovations in digital document management

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## APPENDIX-A

### PSUEDOCODE

#### 1. Login Flow (OTP Authentication)

1. Start App
2. Show Login Screen (Phone Number Input)
3. On Submit (Phone Number):
  1. Send OTP using Appwrite
  2. Display OTP input screen
4. On OTP Submit:
  1. Verify OTP using Appwrite
  2. If OTP is valid:
    1. Navigate to Home Screen
  3. Else:
    1. Show error message (invalid OTP)

#### 2. Home Screen (After Successful Login)

1. Display UI with a proper layout (not blank/white)

Show the following buttons on the screen:

1. Profile Button (Bottom Right)
2. Birth Certificate Button (Center)
3. Death Certificate Button (Center)
4. Advertisement Button (Left side one and right side one)

#### 2. On clicking **Profile Button**:

1. Navigate to **Profile Page**
2. Allow user to input:
  1. Name (text field)
  2. Email (text field)
3. Email will be used to send the processed document to the user
4. Save Name and Email to Appwrite database
5. Link this profile data with the user's phone number in Appwrite
6. Navigate back to Home Screen

#### 3. On clicking **Birth Certificate Button**:

1. Navigate to **Birth Certificate Upload Page**
2. **Check Database for Hash**: Before allowing document upload, check the database for an existing hash of the document
3. If **hash is found** in the database:

1. Allow user to upload a document (image file)
2. Upload document to Appwrite storage (bucket: user-documents)
3. **Generate Birth Certificate** after 10 seconds and associate it with the user's phone number and email
4. Send the generated birth certificate to the user's registered email address
5. Provide a download link for the user to download the birth certificate.

4. If **hash is not found**:

1. Show message: "No document hash found for upload".

5. On clicking **Death Certificate Button**:

1. Navigate to **Death Certificate Upload Page**
2. Allow user to input:
  1. Name (pre-filled from profile)
  2. Email (pre-filled from profile)
  3. Aadhar Number (required for death certificate generation)
3. **Check Database for Hash**: Before allowing document upload, check the database for an existing hash of the document
4. If **hash is found** in the database:
  1. Allow user to upload a document (image file).
  2. Upload document to Appwrite storage (bucket: user-documents).
  3. **Generate Death Certificate** after 10 seconds and associate it with the user's phone number and email
  4. Send the generated death certificate to the user's registered email address.
  5. Provide a download link for the user to download the death certificate
5. If **hash is not found**:

1. Show message: "No document hash found for upload".

6. On clicking **Advertisement Button (Left or Right)**:

1. Open external advertisement link in the browser

### 3. Profile Page

1. Input Fields:

1. Name (text field)
2. Email (text field)

2. On Submit:

1. Save the profile information to the Appwrite database
2. Link this profile data with the user's phone number in Appwrite
3. Navigate back to Home Screen

#### 4. Birth Certificate Upload Page

1. Before upload, **Check the Hash** of the document in the database to ensure the hash is found
2. If the **hash is found** in the database:
  1. Allow user to upload the birth certificate document (image file)
  2. Upload document to Appwrite storage (bucket: user-documents)
  3. After 10 seconds, automatically generate a **Birth Certificate** and associate it with the user's phone number and email address.
  4. Send the generated birth certificate to the user's registered email address.
  5. Provide a download link for the user to download the birth certificate.
3. If **hash is not found**:
  1. Show message: "No document hash found for upload".

#### 5. Death Certificate Upload Page

1. Allow user to input:
  1. Name (pre-filled from profile)
  2. Email (pre-filled from profile)
  3. Aadhar Number (required for death certificate generation)
2. Before upload, **Check the Hash** of the document in the database to ensure the hash is found.
3. If the **hash is found** in the database:
  1. Allow user to upload the death certificate document (image file)
  2. Upload document to Appwrite storage (bucket: user-documents)
  3. After 10 seconds, automatically generate a **Death Certificate** and associate it with the user's phone number and email address.

4. Send the generated death certificate to the user's registered email address.
5. Provide a download link for the user to download the death certificate

4. If **hash is not found**:

6. Show message: "No document hash found for upload".

## 6. Navigation and Flow

1. Use Android Navigation components to handle screen transitions (e.g., login -> home -> profile -> birth certificate -> death certificate)
2. Ensure proper error handling (e.g., invalid OTP, upload failures, document hash not found).

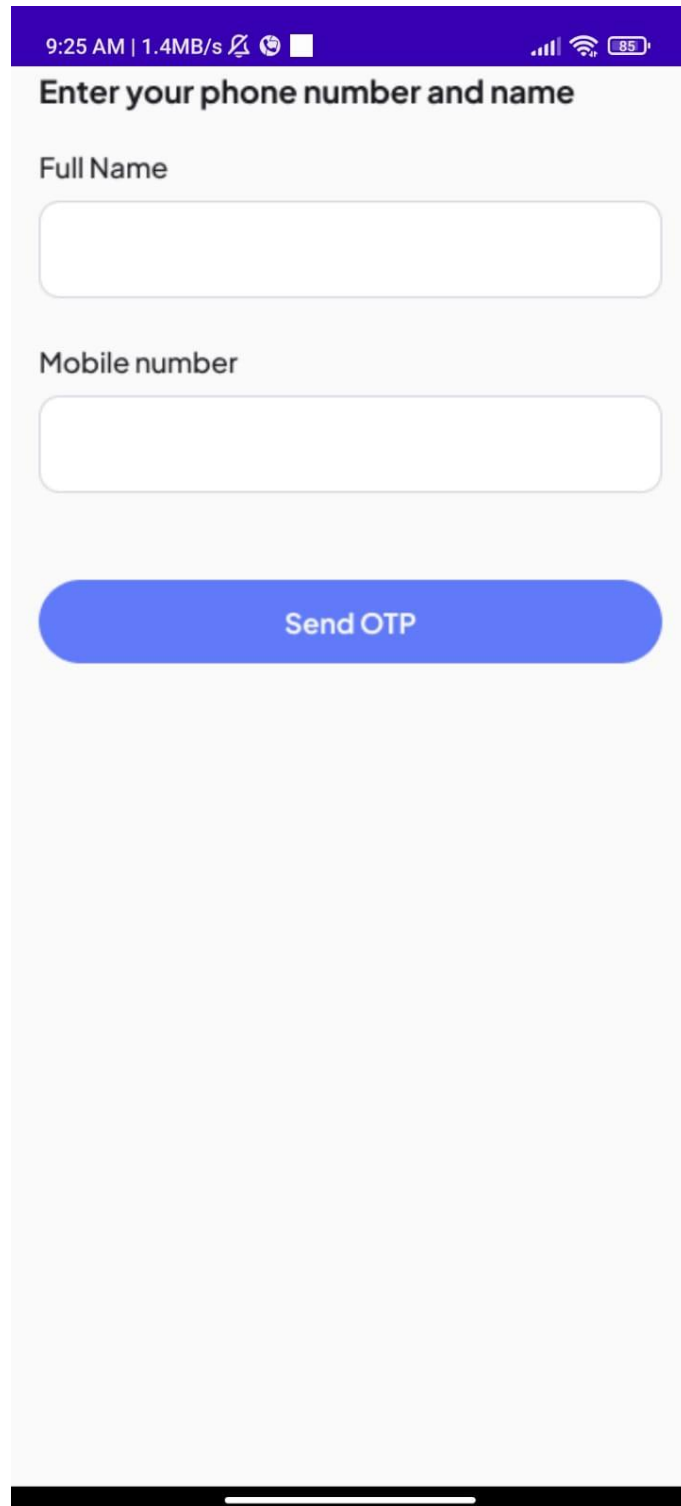
### Key Functionalities:

- **OTP Authentication:**
  - Appwrite.
- **Profile Management:**
  - Name and Email.
- **Document Upload:**
  - Birth Certificate, Death Certificate.
- **Document Hash Check:**
  - Only allow document upload if the hash is found in the database.
- **Email Sending:**
  - Generated certificate is sent to the user's email address.
- **Advertisement Section:**
  - Linking to an external URL.



## APPENDIX-B

### SCREENSHOTS



9:25 AM | 1.4MB/s

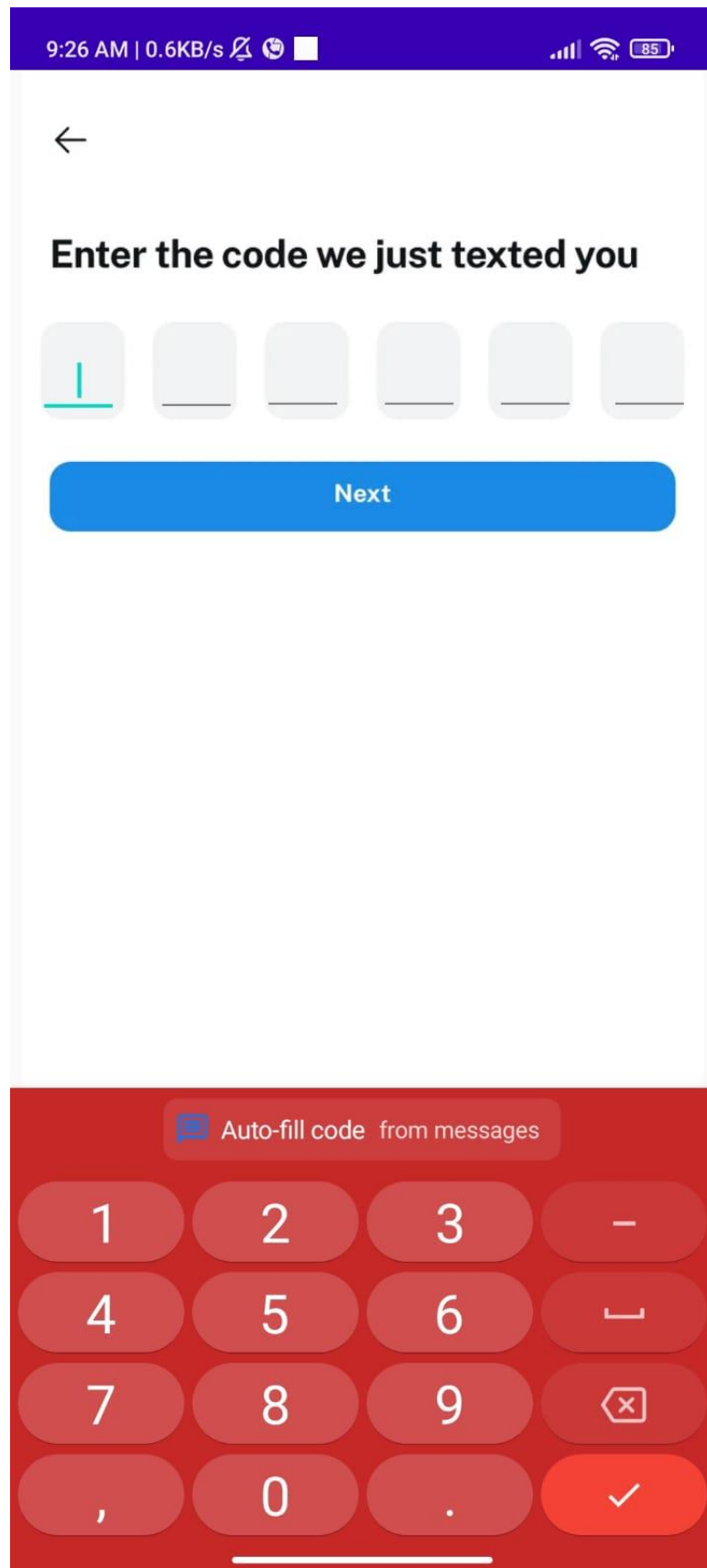
Enter your phone number and name

Full Name

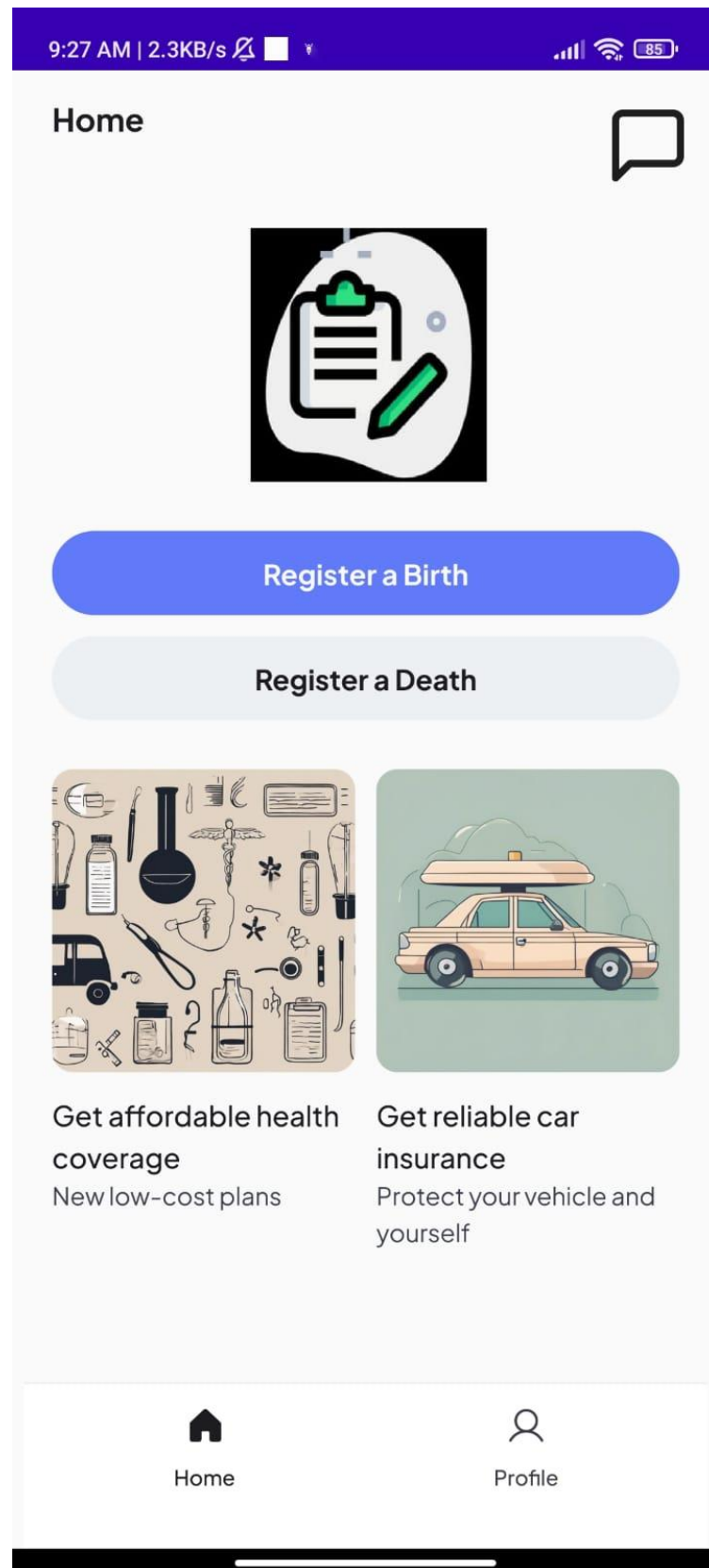
Mobile number

Send OTP

*Fig 1: Login page for the app.*



*Fig 2: 2-Factor Authentication for logging in the app.*



*Fig 3: Home page of the app.*

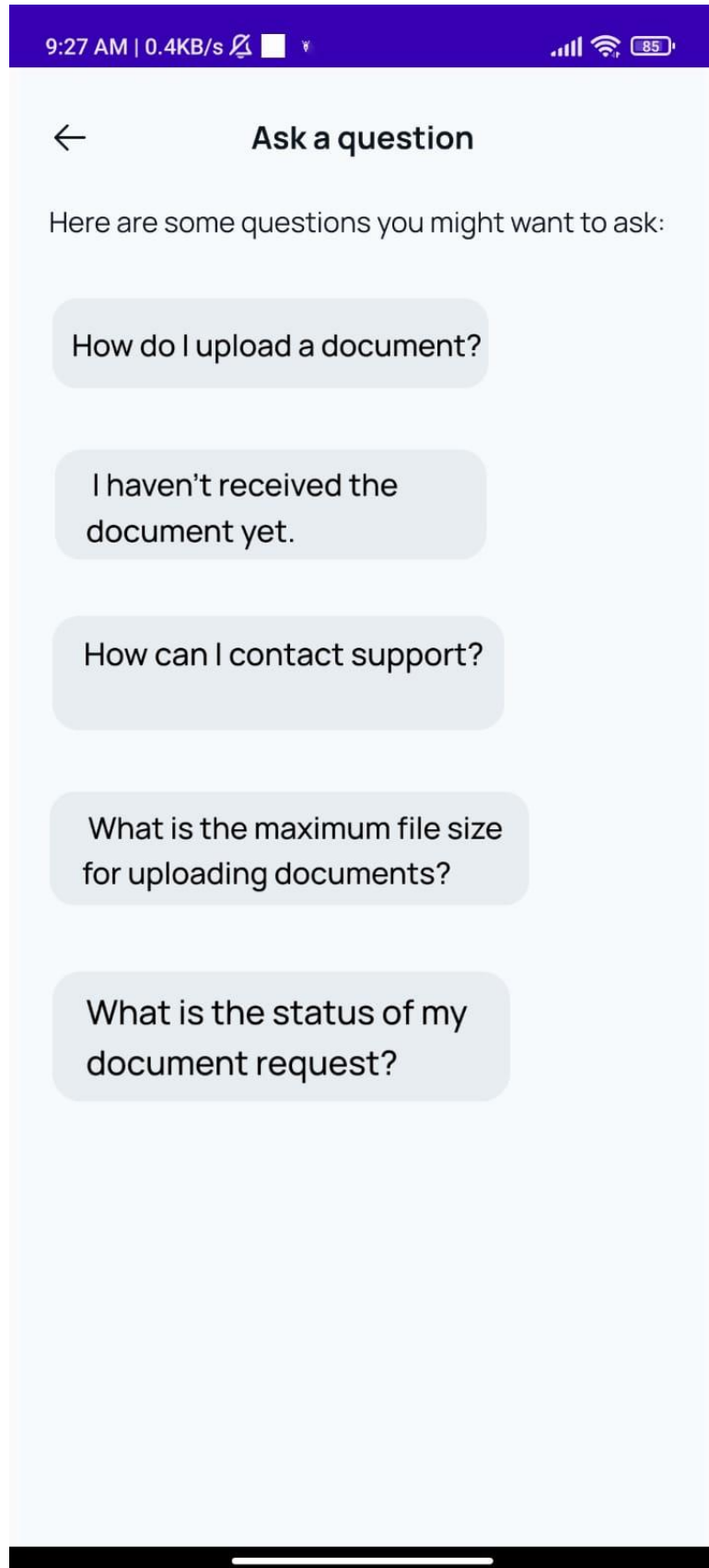
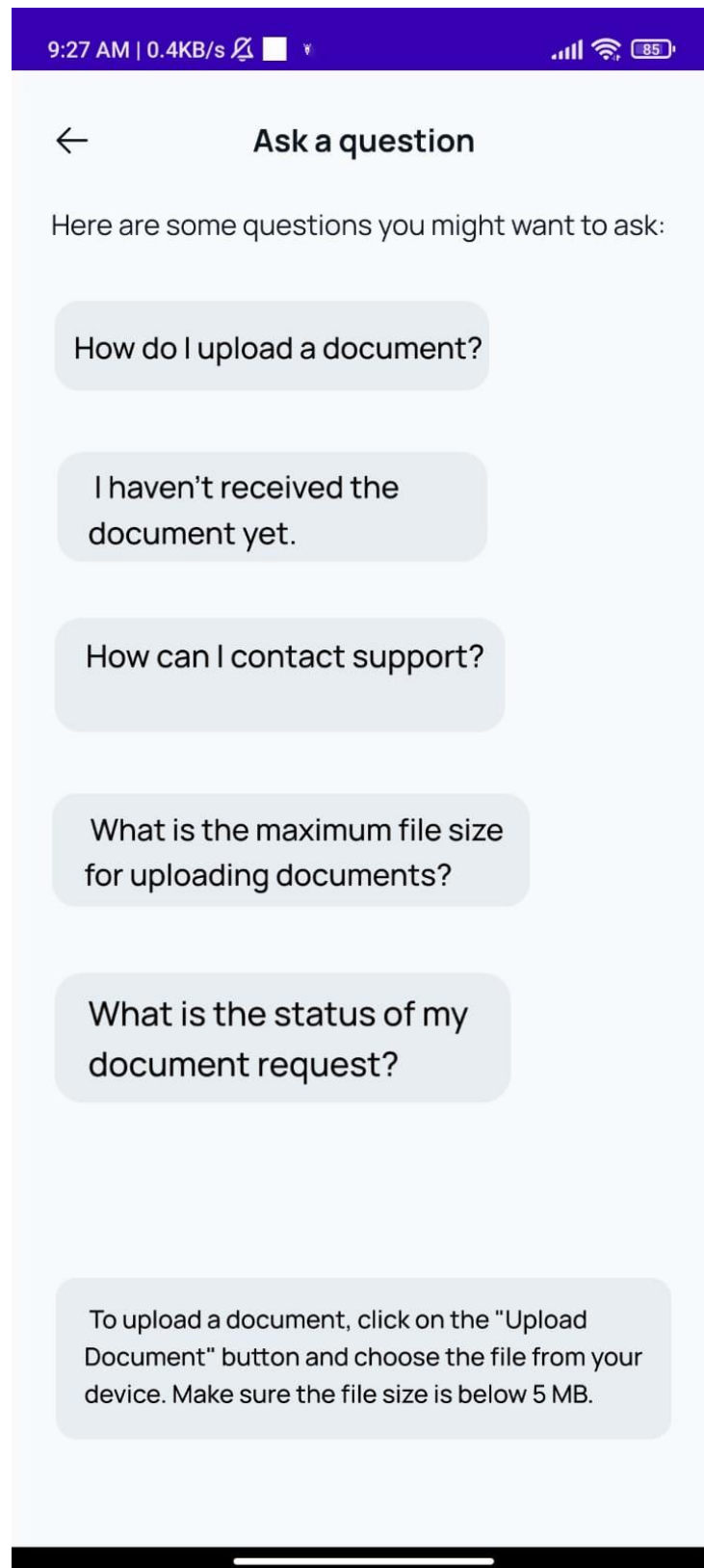


Fig 4: FAQ section.



*Fig 4.1: FAQ section-1.*

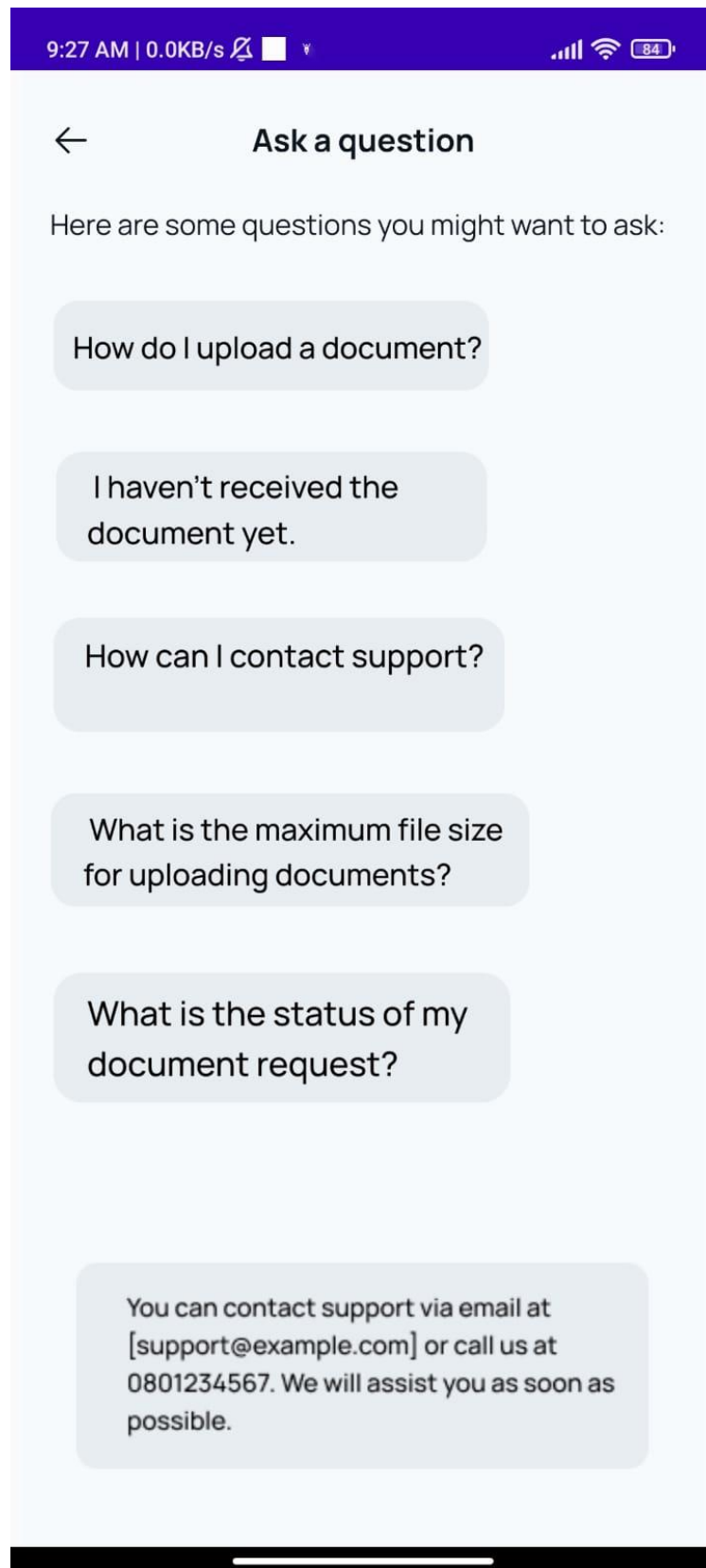


Fig 4.2: FAQ section-2.

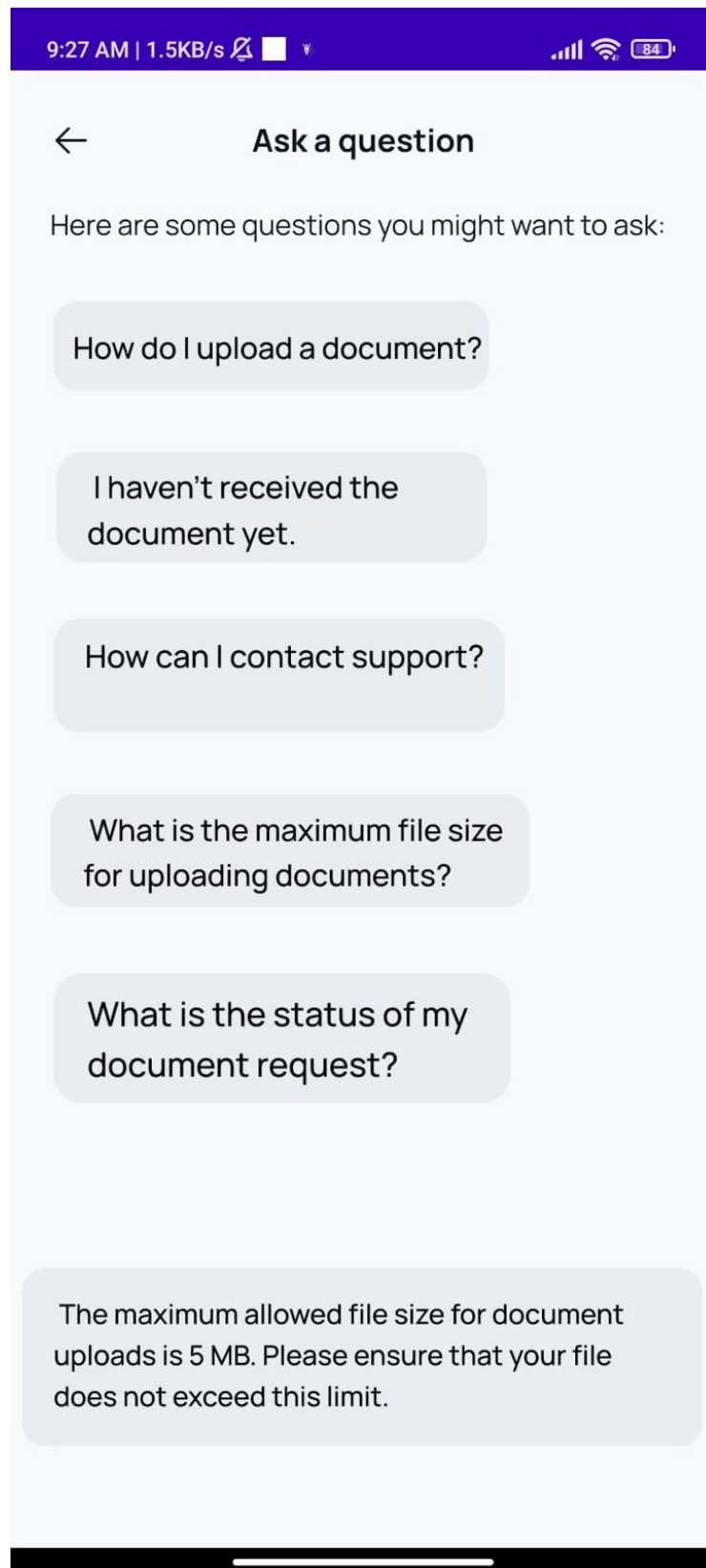


Fig 4.3: FAQ section-3.

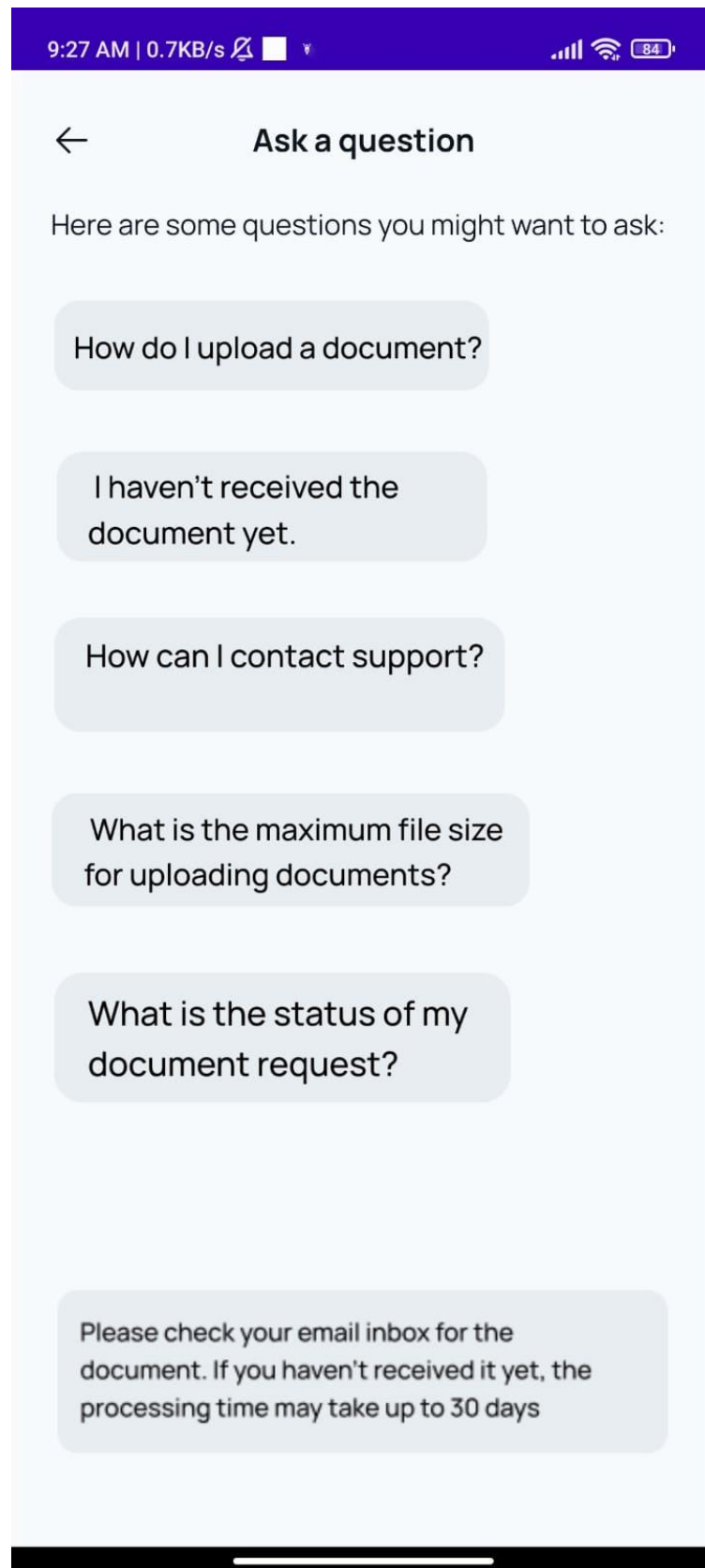


Fig 4.4: FAQ section-4



The image shows a mobile application interface for user registration. At the top, there is a purple status bar with the time '9:28 AM', data speed '5.1KB/s', and various icons. Below this, the title 'Profile' is centered. The form consists of two input fields: 'Full Name' with the letter 'j' and 'Gmail Address' with the email 'jagadishkishang@gmail.com'. A blue 'Save' button is at the bottom. The entire form is set against a light gray background within a white container.

**Profile**

Full Name

j

Gmail Address

jagadishkishang@gmail.com

**Save**

*Fig 5: User Registration.*

The image shows a mobile application interface for birth certificate documentation. At the top, a purple status bar displays the time as 9:28 AM, a data speed of 5.5KB/s, and battery level at 84%. The app title 'Birth Certificate' is centered at the top. Below it, the heading 'Why do you need a birth certificate?' is followed by a paragraph explaining its necessity for school registration, government benefits, and travel. A section titled 'How to get a birth certificate' features a vertical timeline with three steps: 'Register the birth' (calendar icon), 'Wait 21 days' (clock icon), and 'Get the certificate' (document icon). The next section, 'What documents do you need?', lists three items with checkboxes: 'Aadhar Card', 'Hospital Letter', and '10th Marks Sheet'. At the bottom, there is a blue 'Upload Document' button.

**Birth Certificate**

### Why do you need a birth certificate?

You will need a birth certificate to register your child for school, apply for government benefits, and travel.

### How to get a birth certificate

- Register the birth
- Wait 21 days
- Get the certificate

### What documents do you need?

- ☐ Aadhar Card
- ☐ Hospital Letter
- ☐ 10th Marks Sheet

**Upload Document**

Fig 6: Information on birth certificate documentation.

The image shows a mobile application interface for obtaining a birth certificate. At the top, a purple status bar displays the time as 9:28 AM, a data speed of 5.2KB/s, and battery level at 84%. The main heading is "Birth Certificate". Below this, a section titled "Why do you need a birth certificate?" explains that it is required for school registration, government benefits, and travel. A "How to get a birth certificate" section follows, showing a three-step process: 1. Register the birth (with a calendar icon), 2. Wait 21 days (with a clock icon), and 3. Get the certificate (with a document icon). The "What documents do you need?" section contains three items: "Aadhar Card" (checked), "Hospital Letter" (unchecked), and "10th Mar" (unchecked). A dark grey "File selected" bubble is positioned over the "10th Mar" item. At the bottom, there is a blue "Upload Document" button.

9:28 AM | 5.2KB/s

## Birth Certificate

### Why do you need a birth certificate?

You will need a birth certificate to register your child for school, apply for government benefits, and travel.

### How to get a birth certificate

- Register the birth
- Wait 21 days
- Get the certificate

### What documents do you need?

- ☒ Aadhar Card
- ☐ Hospital Letter
- ☐ 10th Mar

File selected

Upload Document

Fig 7.1: Document uploading for birth certificate.

The image shows a mobile application interface for birth certificate registration. At the top, a purple status bar displays the time as 9:28 AM, a data speed of 0.0KB/s, and battery level at 84%. The main heading is "Birth Certificate". Below it, a section titled "Why do you need a birth certificate?" explains that it is needed for school registration, government benefits, and travel. A "How to get a birth certificate" section lists three steps: "Register the birth" (with a calendar icon), "Wait 21 days" (with a clock icon), and "Get the certificate" (with a document icon). The "What documents do you need?" section features three items: "Aadhar Card" (checked), "Hospital Letter" (checked), and "10th Mar" (unchecked). A "File selected" notification bubble is positioned over the "10th Mar" item. At the bottom, there is a blue "Upload Document" button.

9:28 AM | 0.0KB/s

## Birth Certificate

### Why do you need a birth certificate?

You will need a birth certificate to register your child for school, apply for government benefits, and travel.

### How to get a birth certificate

- Register the birth
- Wait 21 days
- Get the certificate

### What documents do you need?

- ☒ Aadhar Card
- ☒ Hospital Letter
- ☐ 10th Mar

File selected

Upload Document

Fig 7.2: Document uploading for birth certificate.

The image shows a mobile application interface for obtaining a birth certificate. At the top, a purple status bar displays the time as 9:28 AM, data usage as 0.0KB/s, and battery level at 84%. The app's title, "Birth Certificate", is centered at the top in white. Below this, a section titled "Why do you need a birth certificate?" explains that a birth certificate is required for school registration, government benefits, and travel. A subsequent section, "How to get a birth certificate", outlines a three-step process: "Register the birth" (with a calendar icon), "Wait 21 days" (with a clock icon), and "Get the certificate" (with a document icon). The final section, "What documents do you need?", lists three required items: "Aadhar Card", "Hospital Letter", and "10th Mar" (likely a marriage certificate), each preceded by a checked checkbox. A dark grey "File selected" notification bubble is positioned over the "10th Mar" item. At the bottom, a prominent blue button is labeled "Upload Document".

9:28 AM | 0.0KB/s 84%

## Birth Certificate

### Why do you need a birth certificate?

You will need a birth certificate to register your child for school, apply for government benefits, and travel.

### How to get a birth certificate

- Register the birth
- Wait 21 days
- Get the certificate

### What documents do you need?

- ☒ Aadhar Card
- ☒ Hospital Letter
- ☒ 10th Mar

File selected

Upload Document

Fig 7.3: Document uploading for birth certificate.

The image shows a mobile application interface for adding a new birth record. At the top, there is a status bar with the time 9:28 AM, data usage 2.3KB/s, and battery level 84%. The main heading is "Add new record". Below this, there are seven input fields for the following information: Name, Gender, Date of Birth, Place of Birth, Father's Name, Mother's Name, and Date of Registration. Each field is represented by a white rounded rectangle with a thin grey border. At the bottom of the form is a large blue button with the text "Upload Record".

**Add new record**

Name

Gender

Date of Birth

Place of Birth

Father's Name

Mother's Name

Date of Registration

**Upload Record**

*Fig 8: Registration page for birth certificate.*

The image shows a mobile application interface with a purple status bar at the top displaying '9:29 AM | 2.9KB/s' and various icons. Below the status bar is a white header with a back arrow and the text 'Generate document'. The main content area has a white background with the text 'Your document will be sent to your email' in bold. Below this text is a large, empty white rectangular box with rounded corners. At the bottom of this box is a blue button with the text 'Generate' in white. The entire interface is framed by a light gray border, and a black home indicator bar is visible at the very bottom.

*Fig 9: Email section for sending the birth certificate or death certificate.*

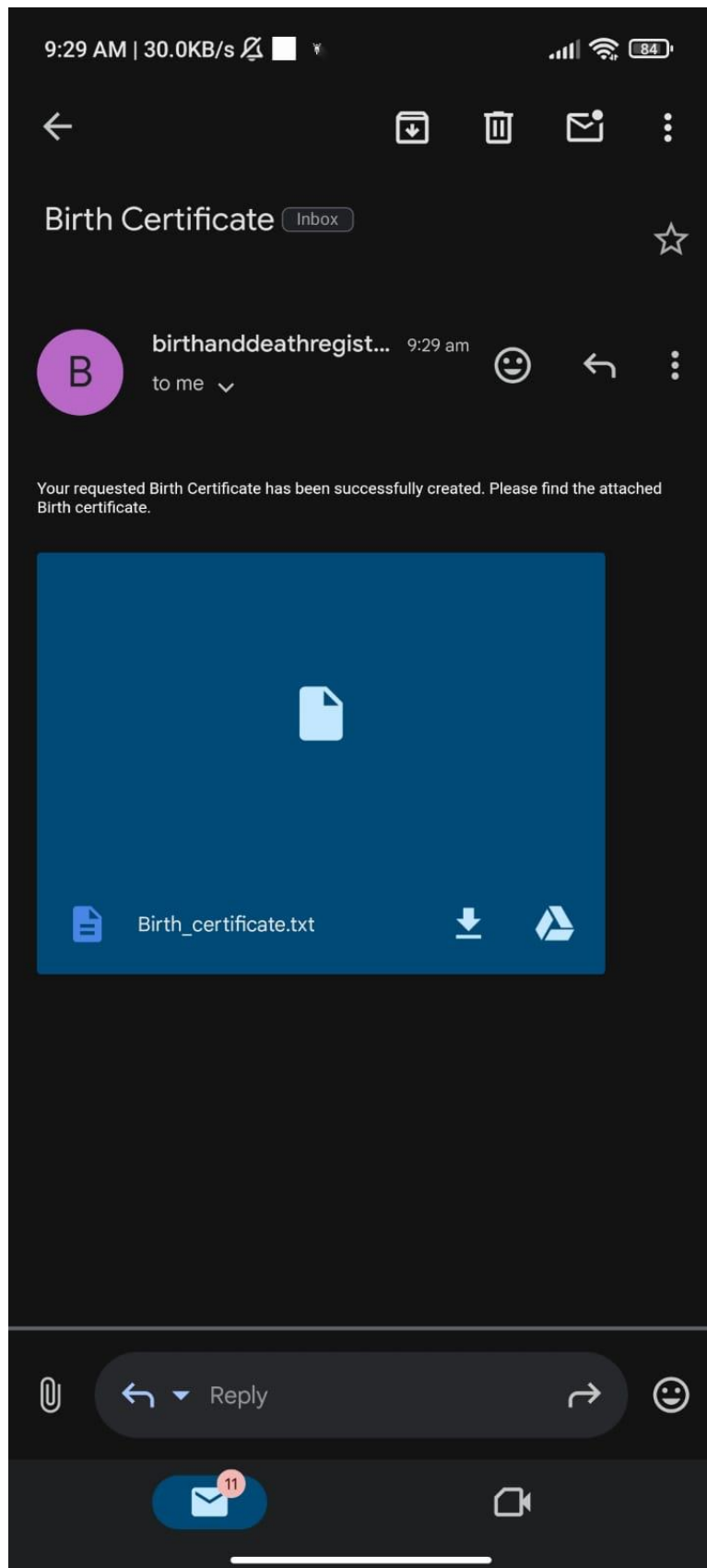


Fig 10: Mail of birth certificate.



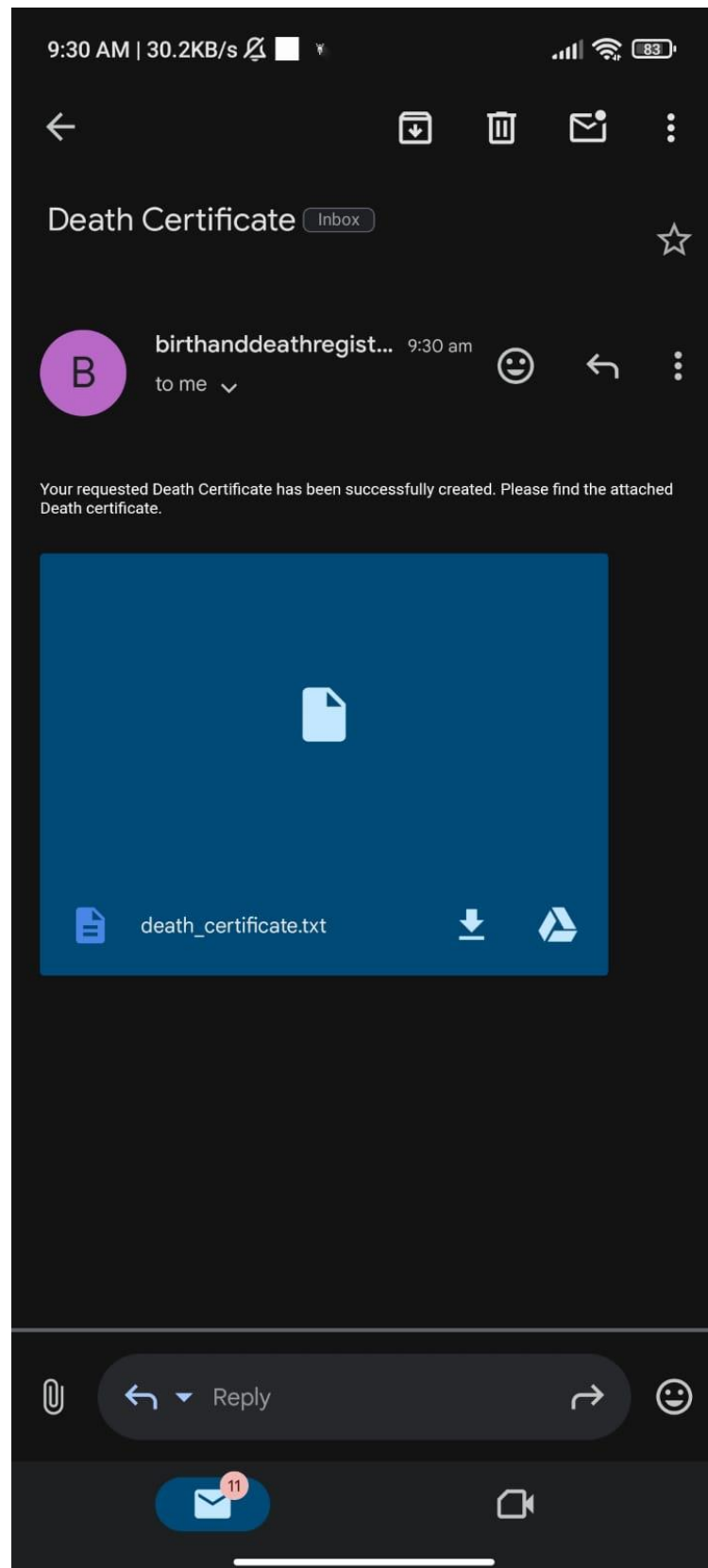


Fig 11: Mail of death certificate.

The image shows a mobile application interface for adding a new death record. At the top, there is a status bar with the time 9:30 AM, a data speed of 0.0KB/s, and battery level at 84%. The main heading is "Add new record". Below this, there are seven input fields for the following information: Name, Gender, Date of Death, Place of Death, Father's Name, Mother's Name, and Date of Registration. Each field is represented by a rounded rectangular box. At the bottom of the form is a prominent blue button labeled "Upload Record".

**Add new record**

Name

Gender

Date of Death

Place of Death

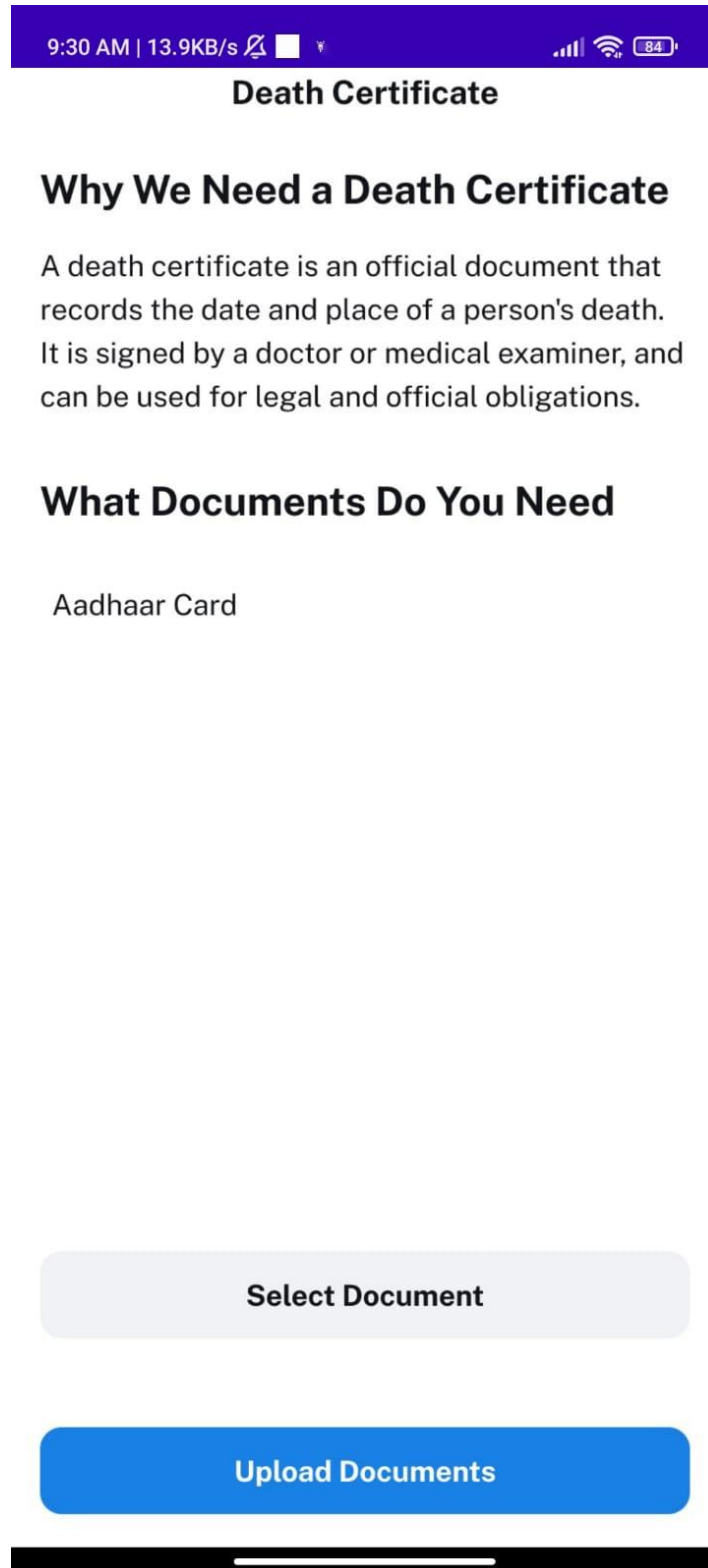
Father's Name

Mother's Name

Date of Registration

**Upload Record**


*Fig 12: Information for registering death certificate.*



*Fig 13: Information of Death Certificate.*

## APPENDIX-C

## ENCLOSURE






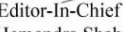

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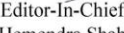

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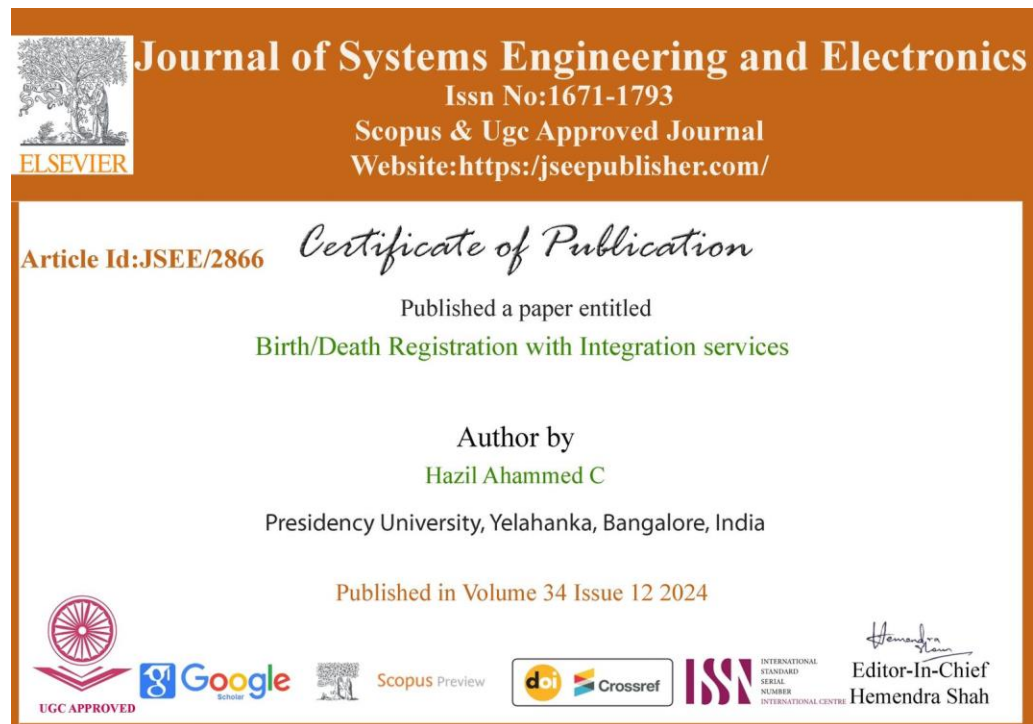
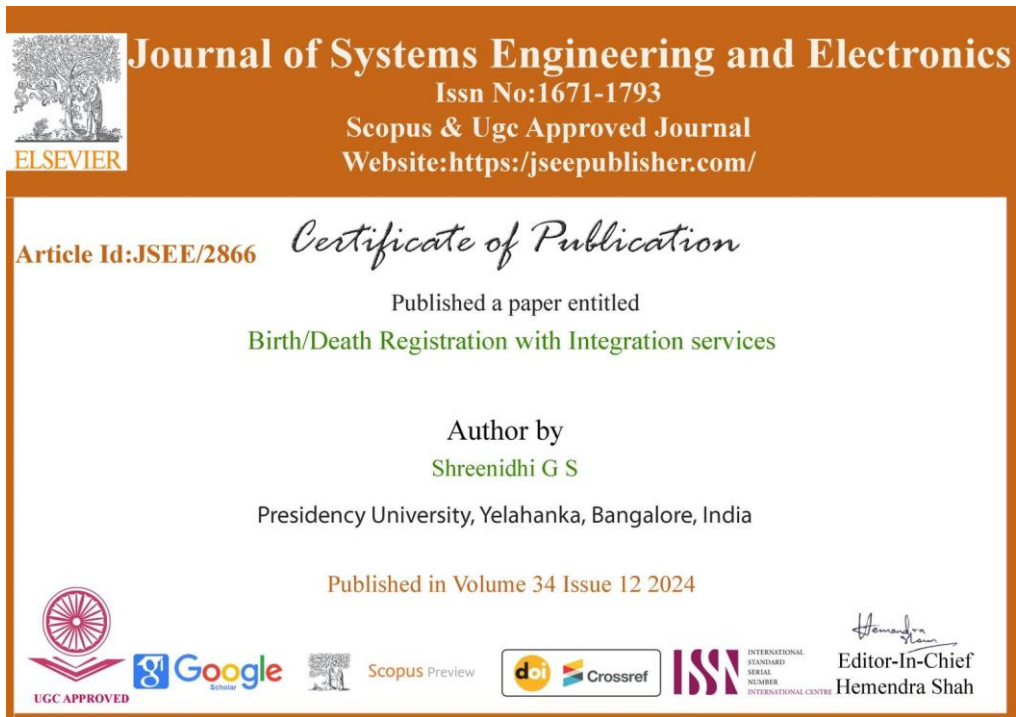
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**The Project work carried out here is mapped to SDG-16: Peace, Justice, and Strong Institutions**

Birth/ Death Registration with Integration services Mobile App promotes strong institutions by creating an efficient and transparent system for managing life events. Automation reduces manual errors, delays, and corruption, ensuring justice in access to essential services like pensions, insurance, and legal documentation.