

# **System Analysis and Design Project**

## **IS2016**

### **Project – Automatically creating Birth Certificate**

**Team Name – Tech Trio**

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## **Identify Stakeholders**

### **Government Authorities:**

Government agencies responsible for issuing birth certificates are essential stakeholders. This can include the Registrar General's Department or relevant local government authorities. They are responsible for processing applications, maintaining records, and ensuring compliance with legal requirements.

### **Registrar/Registration Officers: DS Office**

Individuals within the government agencies who are responsible for registering births, verifying information, and issuing birth certificates are also stakeholders in the process.

**Healthcare Providers:** Hospitals, clinics, and medical professionals who assist with the birth registration process by providing necessary documentation, such as birth records and medical certificates, are stakeholders.

**Parents** The individuals or parents who are applying for the birth certificate are primary stakeholders. They are directly impacted as they are the ones seeking the document for legal, administrative, or personal reasons.

**Data Management and Technology Providers:** Entities involved in providing technology solutions for birth registration, data management, and record-keeping are also stakeholders. They play a role in ensuring the efficiency and accuracy of the registration process.

## **Define Objectives**

The objective of the system is to provide a streamlined and efficient process for obtaining a certified birth certificate for a newly born child by inputting their details. The system aims to automate the generation and issuance of birth certificates, ensuring accuracy, reliability, and compliance with legal requirements. Through this system, users will be able to input essential information about the newborn, and the system will generate a certified birth certificate promptly. The primary goal is to simplify the process associated with obtaining birth certificates by Divisional Secretariats

## **Plan the Approach**

Gather requirements from stakeholders including government agencies responsible for issuing birth certificates, hospitals, and end-users.

Identify key functionalities needed such as data input, verification, certificate generation, and security measures.

Design the system architecture, considering scalability, reliability, and security. Determine the technology stack including programming languages, frameworks, and databases.

Define the user interface (UI) for data input and certificate retrieval.

Conduct unit testing, integration testing, and system testing to ensure functionality and reliability.

Monitor system performance and address any issues that may arise during the initial phase of operation.

## **Organize Workshops**

Organizing workshops can be a valuable component of developing a system to obtain birth certificates efficiently. Workshops facilitate collaboration, communication, and alignment among stakeholders, helping to gather requirements, refine ideas, and address concerns.

## **Document Requirements**

Documenting requirements is a crucial step in the development process as it ensures that the system meets the needs and expectations of stakeholders.

Users should be able to register an account with the system.

Users should be able to input essential information about the newborn child, such as name, date of birth, place of birth, parents' names, and other relevant details.

Authorized personnel, such as hospital staff or government officials, should be able to verify the submitted information and approve the birth certificate request.

## Reference

Rgdmin, “Birth registration.”

[https://www.rgd.gov.lk/web/index.php?option=com\\_content&view=article&id=20&Itemid=151&lang=en#:~:text=These%20documents%20are%20registered%20by,are%20issued%20by%20Divisional%20Secretariats.](https://www.rgd.gov.lk/web/index.php?option=com_content&view=article&id=20&Itemid=151&lang=en#:~:text=These%20documents%20are%20registered%20by,are%20issued%20by%20Divisional%20Secretariats.)

“Obtaining Birth/Marriage certificates (Extracts) occurred in Sri Lanka – High Commission of the Democratic Socialist Republic of Sri Lanka in the United Kingdom.” <https://srilankahc.uk/obtaining-birth-marriage-certificates/>