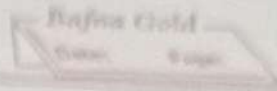


21/10/24

Lab-3



Passport automation

1) Introduction

1.1) Purpose: It provides a detailed description of the functionalities, performance, expectations and constraints.

1.2) Scope: It covers design and implementation of an automated system for processing passport applications. The development is expected to enhance efficiency, reduce processing time and improve user experience.

2) General description

The passport automation system will facilitate passport applications for citizens through a web-based platform.

3) Functional requirements

3.1) User registration and login:

- user must be able to create account, login and manage their profiles

3.2) Application submission:

- Users can fill out and submit passport applications online

3.3) Document upload: Users must be able to upload required documents securely

3.4) Payment processing:

- The system should support multiple payment methods

3.5) Application Tracking:

- Users can check the status of their application in real time.

4) Interface requirements

- User Interface
- API Interface
- Payment gateway

5) Performance Requirements

- Response time: The system should respond to user actions within 9 sec.
- Data handling: The system must handle 10,000 concurrent users

6) Design Constraints

- Technology stack: must use specified technologies
- Compliance: The system must adhere to data protection regulations.
- Budget constraint: Development must stay within the \$15,000 budget.

2) Non functional requirements

- Security: implement SSL encryption and secure authentication methods.
- Reliability: The system should be capable of recovering from failures without data loss.

8) Preliminary schedule and budget

- Project Time line:
 - Requirements gathering: 1 month
 - Development: 4 months
 - Testing: 1 month

Estimated budget: \$130000 which includes development, testing and deployment costs