Gov.lk Services Portal: Frontend Prototype

Interactive Hackathon Demonstration

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By Team DataSquad

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1 Introduction

This prototype is a proof-of-concept for a centralized digital platform where citizens can access government services efficiently. Built with HTML, CSS, and Vanilla JavaScript, it simulates a complete user journey including searching departments, booking appointments, and interacting with a personal dashboard.

2 Problem Statement

Accessing government services in Sri Lanka is often fragmented, leading to:

- ✓**Decentralized Information:** Scattered across multiple department websites.
- ✓**Long Wait Times:** Physical queues cause delays and inefficiency.
- ✓**Lack of Transparency:** Limited visibility on application status.
- ✓**Bureaucratic Hurdles:** Multiple forms and visits required for a single service.
- ✓**Inaccessibility:** Rural citizens face difficulty accessing offices.

3 Key Features

Core Booking Engine

- ✓**Unified Service Directory:** Searchable, filterable centralized directory.
- ✓**Multi-Step Booking:** Service selection, information & requirements, location, date/time scheduling.
- ✓**Adaptable Flows:** Handles different service types and simplified online payments.
- ✓**Confirmation & Calendar:** Unique reference number with calendar download option.

Citizen Dashboard

- ✓**My Appointments:** Track upcoming and past appointments.
- ✓**Appointment Control:** Reschedule or cancel appointments.
- ✓**Personalized Dashboard:** Alerts and conceptual Document Vault.

Engagement & UX

- ✓**Integrated feedback system** (1-5 star rating + comments)
- ✓**Notification center** with alerts and reminders
- ✓**Multilingual support:** English, Sinhala, Tamil
- ✓**Dark Mode and responsive design**

4 Homepage Mockup

Hero Section

Welcome to Gov.lk Services Portal

Streamlined access to all government services from one centralized platform.

Quick Access Tiles

- ✓Department Tiles for popular services
- ✓Search bar for fast service discovery
- ✓Notifications and reminders
- ✓Dark Mode toggle
- ✓Multilingual support (English, Sinhala, Tamil)

5 Advantages

5.1 For Citizens

- ✓Save time and costs by reducing physical visits.
- ✓24/7 access for rural and elderly citizens.
- ✓Clear upfront information on documents and fees.

5.2 For Government Agencies

- ✓Reduce administrative burden with automated scheduling.
- ✓Better crowd management in offices.
- ✓Collect feedback for data-driven governance.

6 Technology Stack

- ✓**HTML5:** Semantic structure.
- ✓**CSS3:** Styling, layout, responsiveness, Dark Mode.
- ✓**Vanilla JavaScript:** Logic, interactivity, mock data storage with localStorage.

7 Limitations

Current Prototype Limitations

1. ✗Static and mock data, no real-time API integration.
2. ✗No backend; state handled via localStorage.
3. ✗Simplified, insecure authentication.
4. ✗No payment gateway integration.
5. ✗No administrative backend for officials.

8 Assumptions

- ✓APIs from departments will provide secure and standardized data.
- ✓Citizens have basic internet access and digital literacy.
- ✓National digital identity system can be integrated later for verification.

9 Future Improvements (Roadmap)

9.1 Phase 1: Backend & Live Integration

- ✓Robust backend and database.
- ✓Real-time API integration.
- ✓Secure authentication and payment gateway.

9.2 Phase 2: User Experience & Feature Expansion

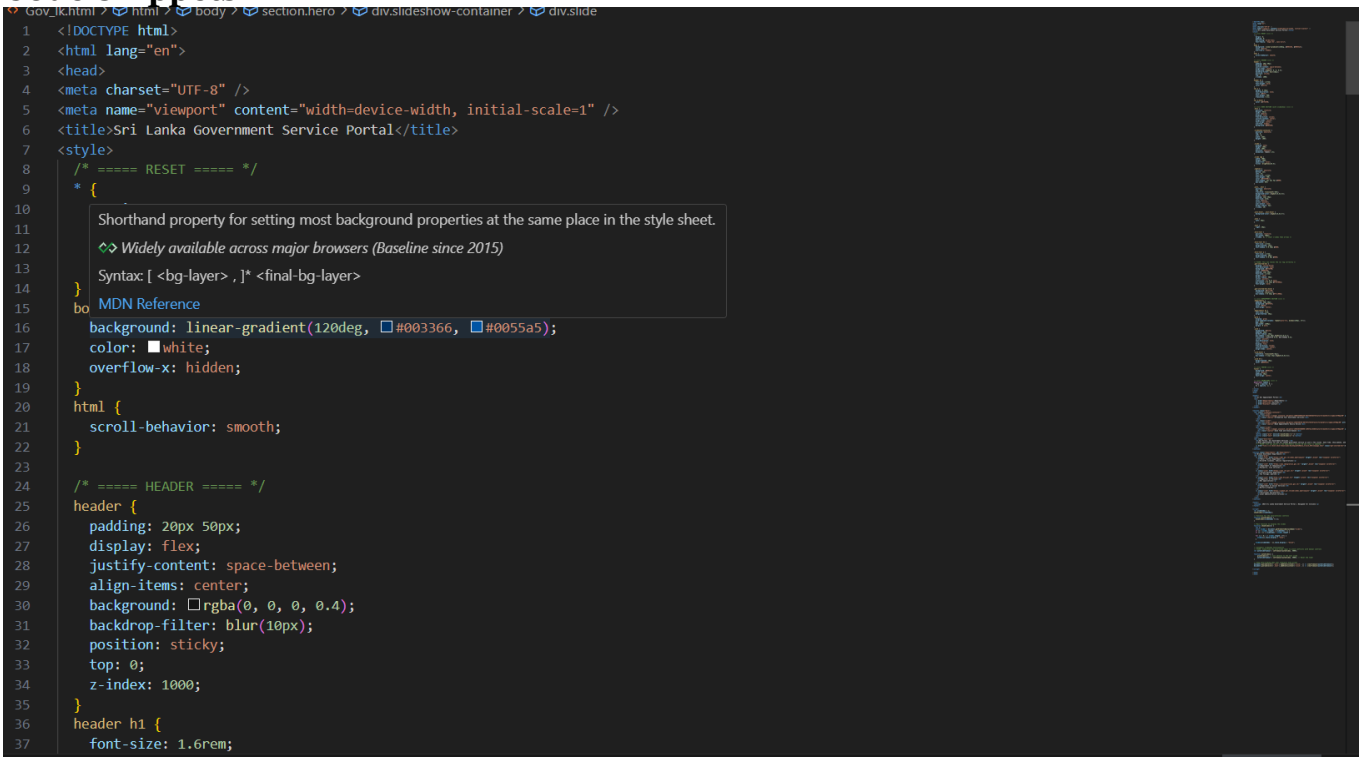
- ✓Native Android/iOS applications.
- ✓Real-time notifications.
- ✓Secure Document Vault.
- ✓Onboard additional government departments.

9.3 Phase 3: Intelligence & Administration

- ✓Administrative dashboard for staff.
- ✓Analytics engine for insights.
- ✓Multilingual AI-powered chatbot.

10 Web Page screenshots with code snippets

Code Snippets



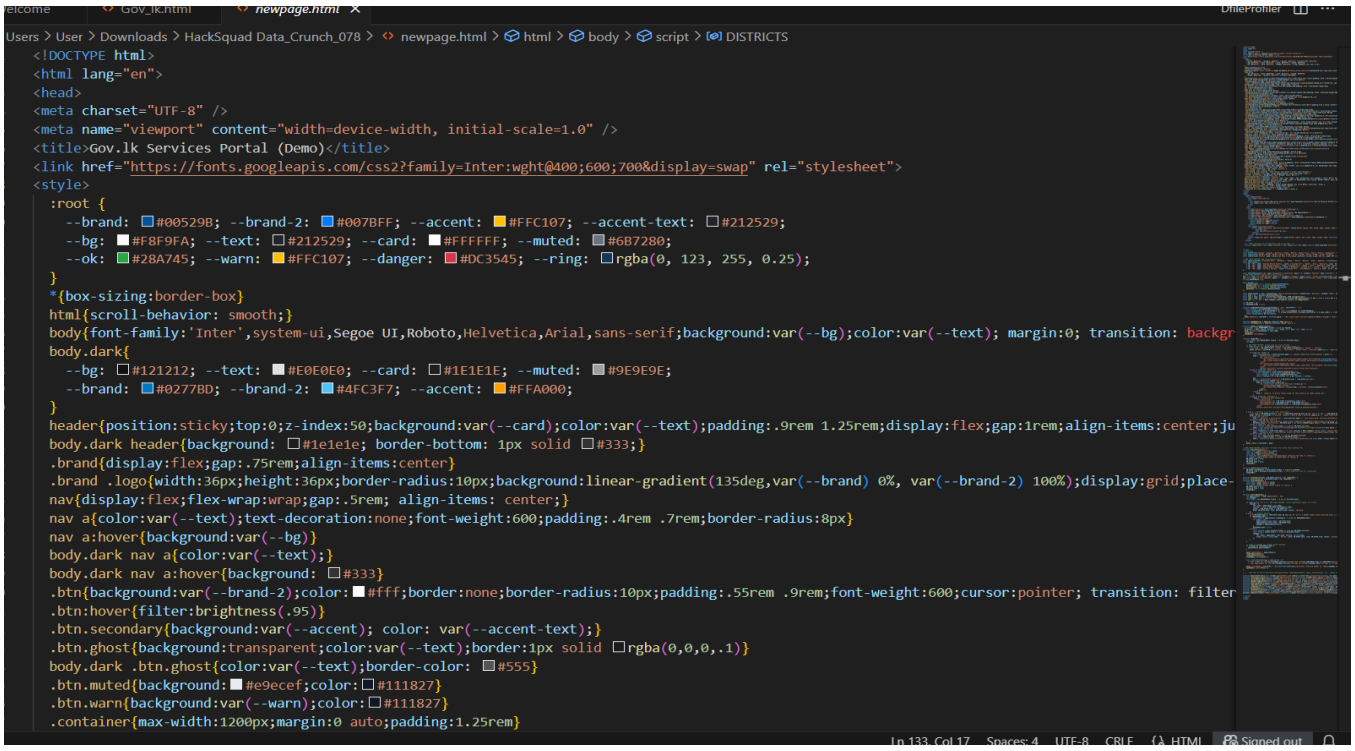
```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<title>Sri Lanka Government Service Portal</title>
<style>
  /* ===== RESET ===== */
  * {
  }
  bo
    background: linear-gradient(120deg, #003366, #0055a5);
    color: white;
    overflow-x: hidden;
  }
  html {
    scroll-behavior: smooth;
  }

  /* ===== HEADER ===== */
  header {
    padding: 20px 50px;
    display: flex;
    justify-content: space-between;
    align-items: center;
    background: rgba(0, 0, 0, 0.4);
    backdrop-filter: blur(10px);
    position: sticky;
    top: 0;
    z-index: 1000;
  }
  header h1 {
    font-size: 1.6rem;
```

Shorthand property for setting most background properties at the same place in the style sheet.

Widely available across major browsers (Baseline since 2015)

Syntax: [<bg-layer> ,]* <final-bg-layer>

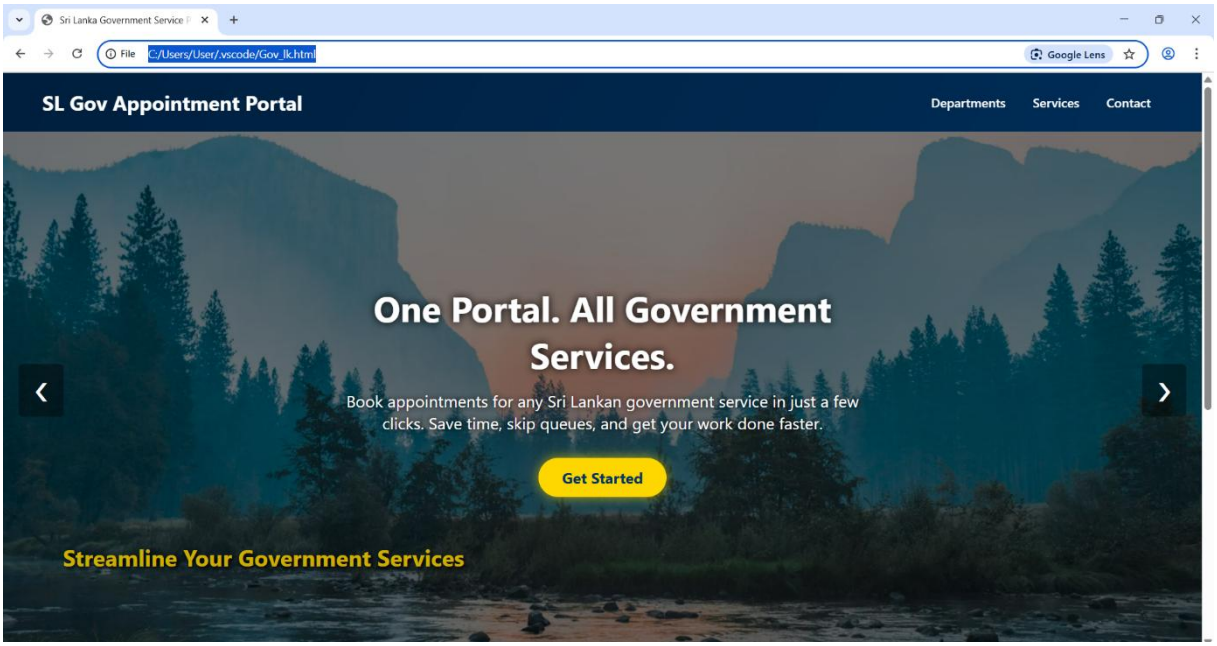
MDN Reference

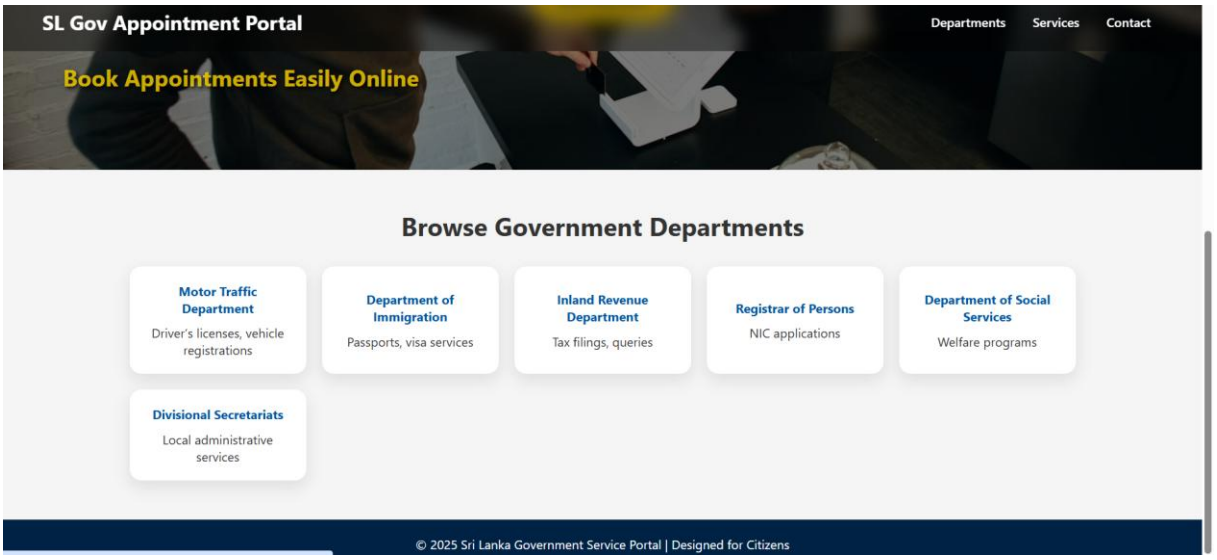


```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<title>Gov.lk Services Portal (Demo)</title>
<link href="https://fonts.googleapis.com/css2?family=Inter:wght@400;600;700&display=swap" rel="stylesheet">
<style>
  :root {
    --brand: #00529B; --brand-2: #007BFF; --accent: #FFC107; --accent-text: #212529;
    --bg: #F8F9FA; --text: #212529; --card: #FFFFFF; --muted: #6B7280;
    --ok: #28A745; --warn: #FFC107; --danger: #DC3545; --ring: rgba(0, 123, 255, 0.25);
  }
  *{box-sizing:border-box}
  html{scroll-behavior: smooth;}
  body{font-family:'Inter',system-ui,Segoe UI,Roboto,Helvetica,Arial,sans-serif;background:var(--bg);color:var(--text); margin:0; transition: backgr
  body.dark{
    --bg: #121212; --text: #E0E0E0; --card: #1E1E1E; --muted: #9E9E9E;
    --brand: #0277BD; --brand-2: #4FC3F7; --accent: #FFA000;
  }
  header{position:sticky;top:0;z-index:50;background:var(--card);color:var(--text);padding:.9rem 1.25rem;display:flex;gap:1rem;align-items:center;ju
  body.dark header{background: #1e1e1e; border-bottom: 1px solid #333;}
  .brand{display:flex;gap:.75rem;align-items:center}
  .brand .logo{width:36px;height:36px;border-radius:10px;background:linear-gradient(135deg,var(--brand) 0%, var(--brand-2) 100%);display:grid;place-
  nav{display:flex;flex-wrap:wrap;gap:.5rem; align-items: center;}
  nav a{color:var(--text);text-decoration:none;font-weight:600;padding:.4rem .7rem;border-radius:8px}
  nav a:hover{background:var(--bg)}
  body.dark nav a{color:var(--text);}
  body.dark nav a:hover{background: #333}
  .btn{background:var(--brand-2);color:#fff;border:none;border-radius:10px;padding:.55rem .9rem;font-weight:600;cursor:pointer; transition: filter
  .btn:hover{filter:brightness(.95)}
  .btn.secondary{background:var(--accent); color: var(--accent-text);}
  .btn.ghost{background:transparent;color:var(--text);border:1px solid rgba(0,0,0,.1)}
  body.dark .btn.ghost{color:var(--text);border-color: #555}
  .btn.muted{background:#e9ecef;color:#111827}
  .btn.warn{background:var(--warn);color:#111827}
  .container{max-width:1200px;margin:0 auto;padding:1.25rem}
```

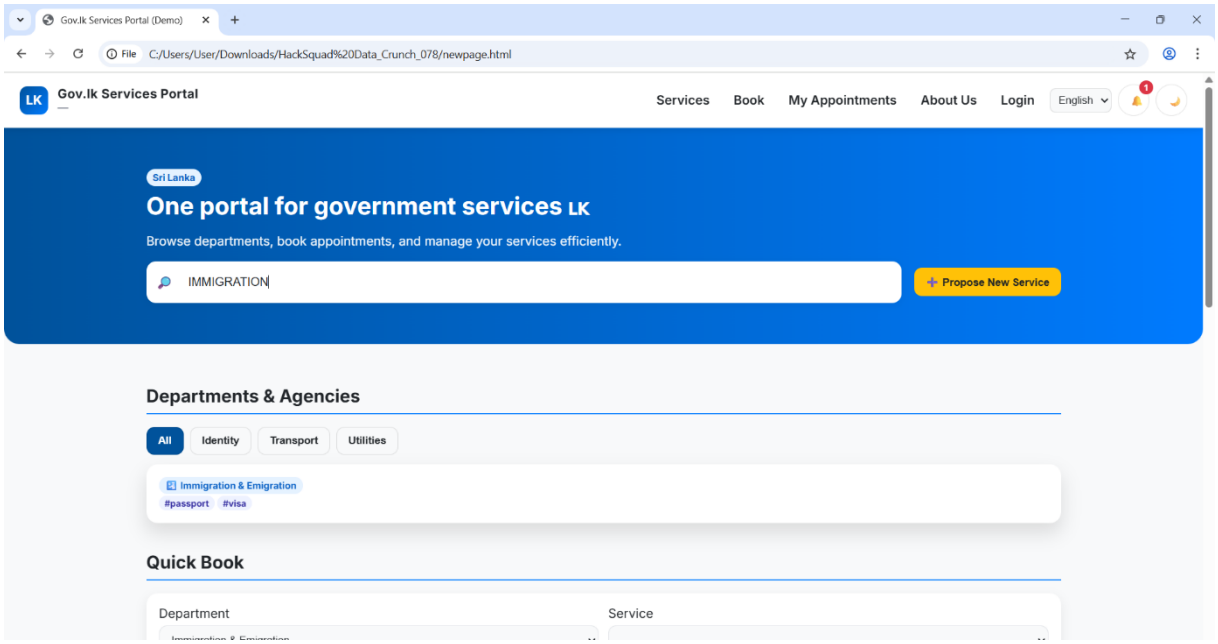
1. Home Page

Gov.lk Services Portal Prototype

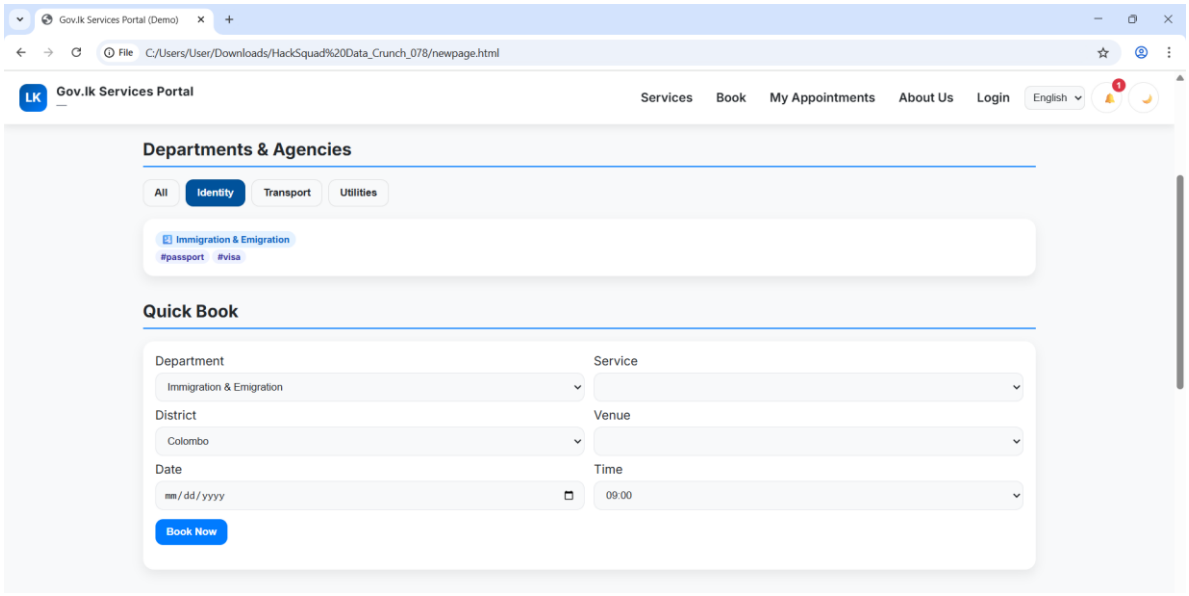


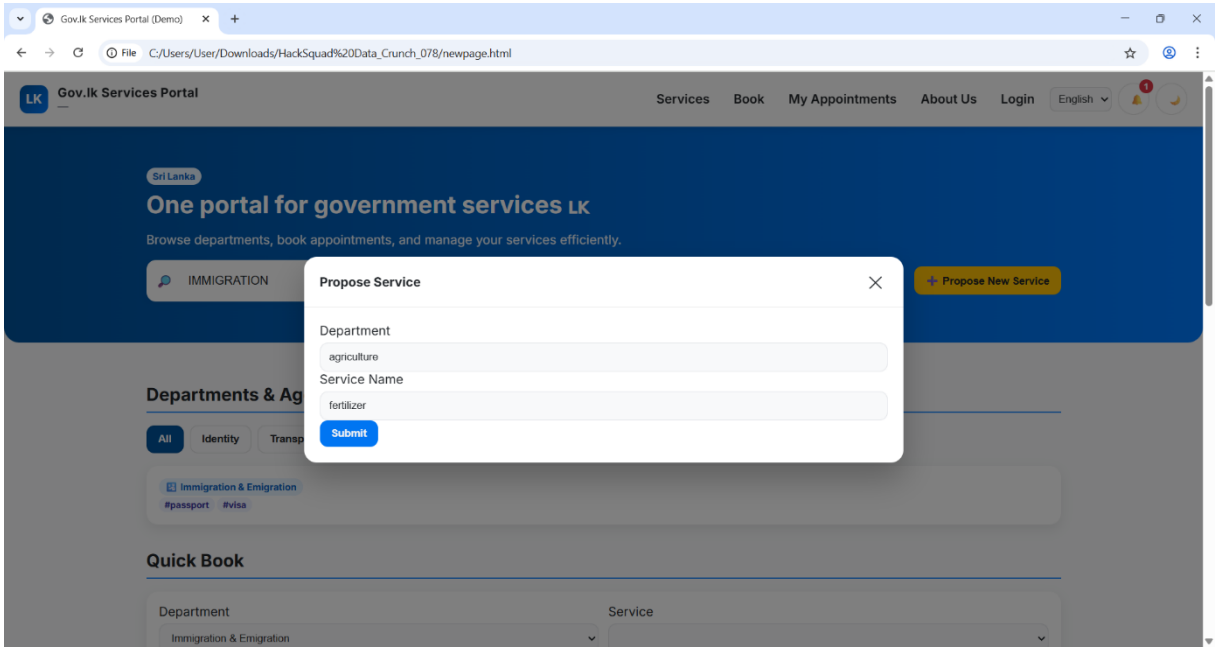


2. Service Page



Gov.lk Services Portal Prototype





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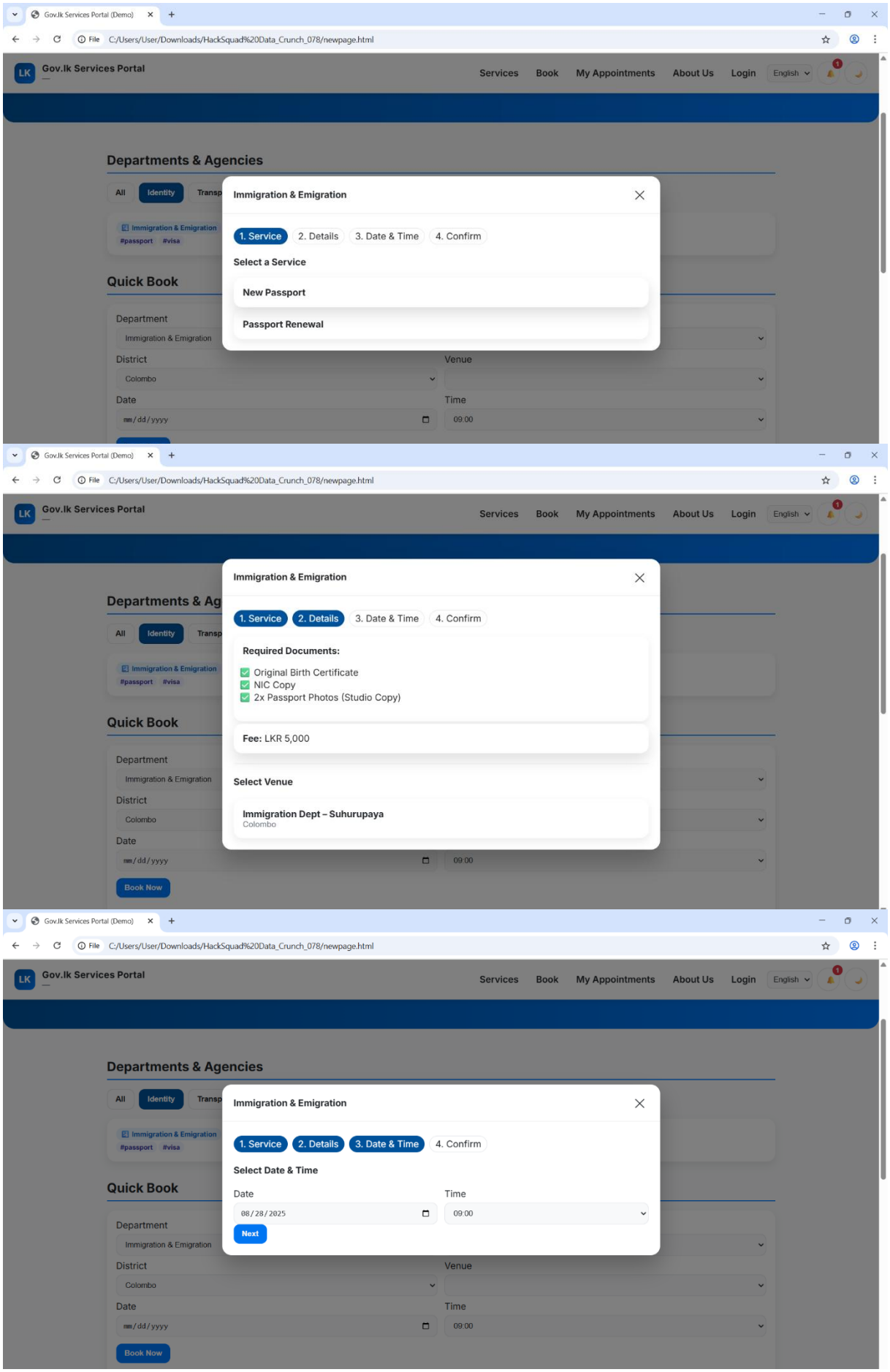

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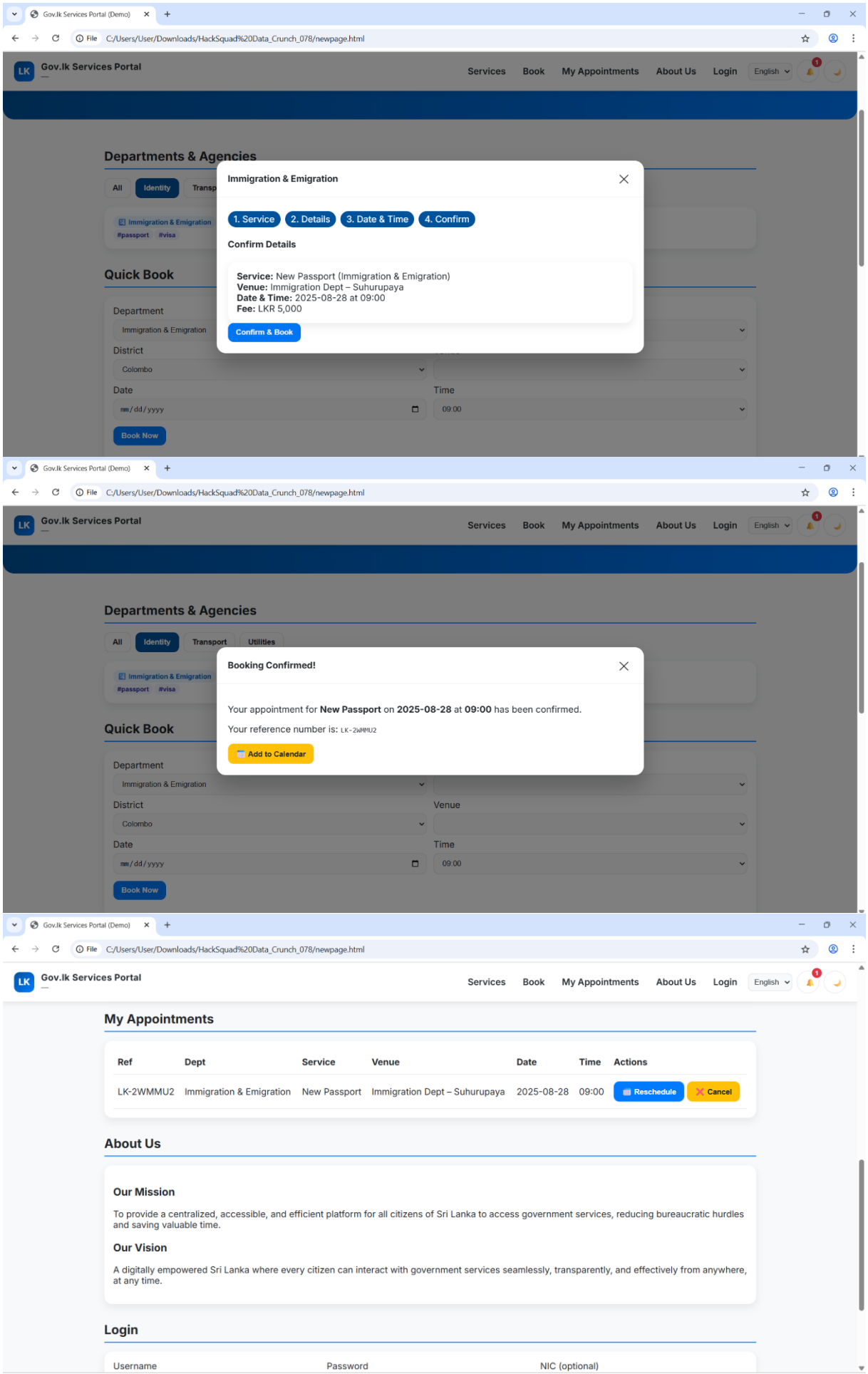

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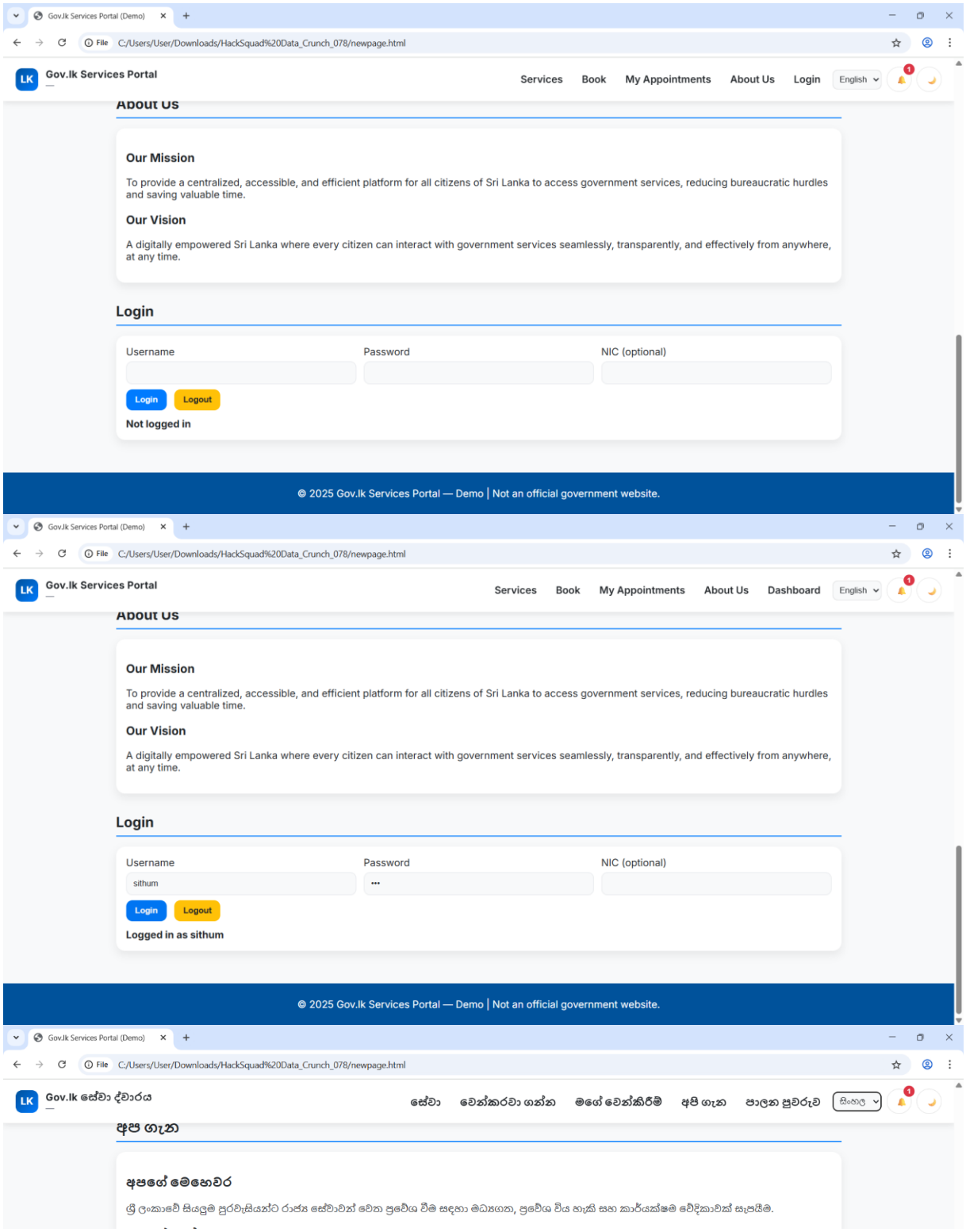

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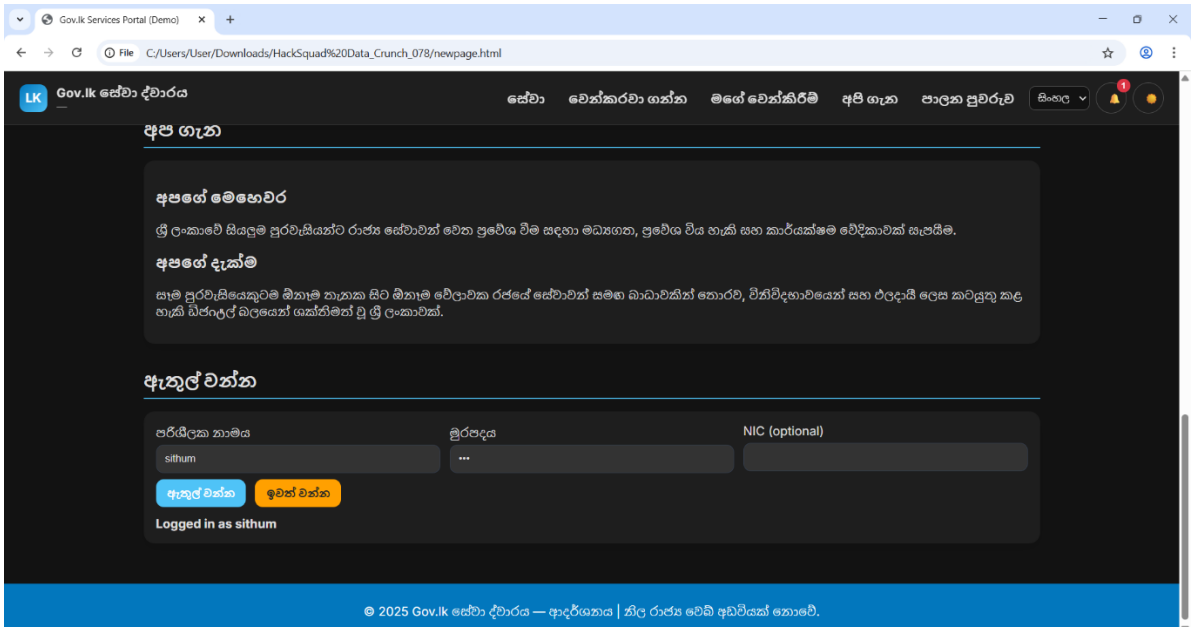
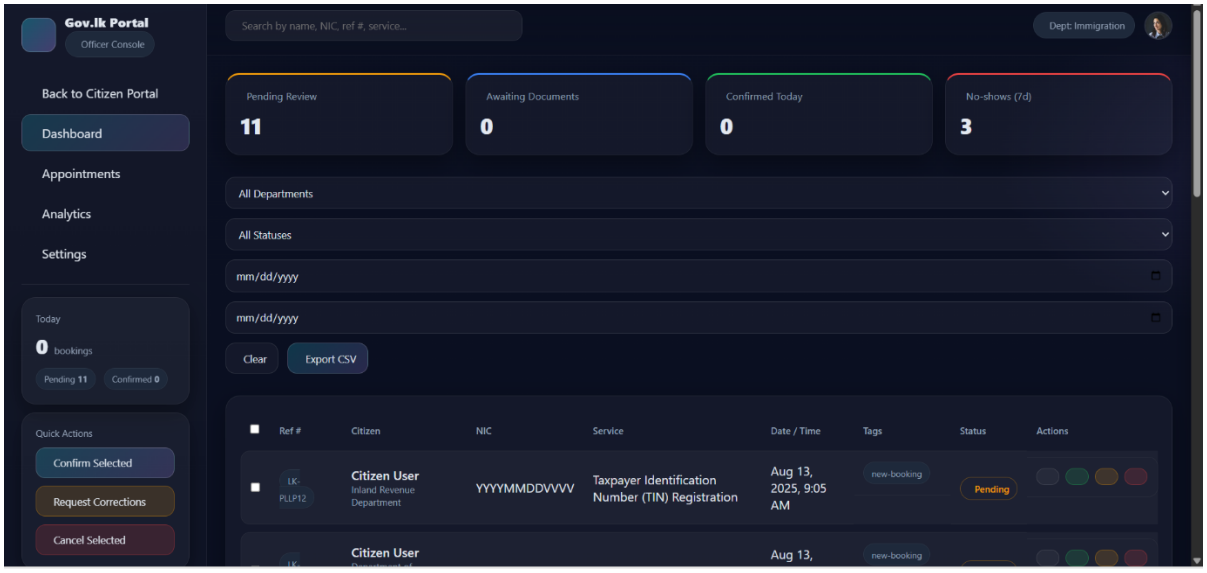


3. Officer's Page



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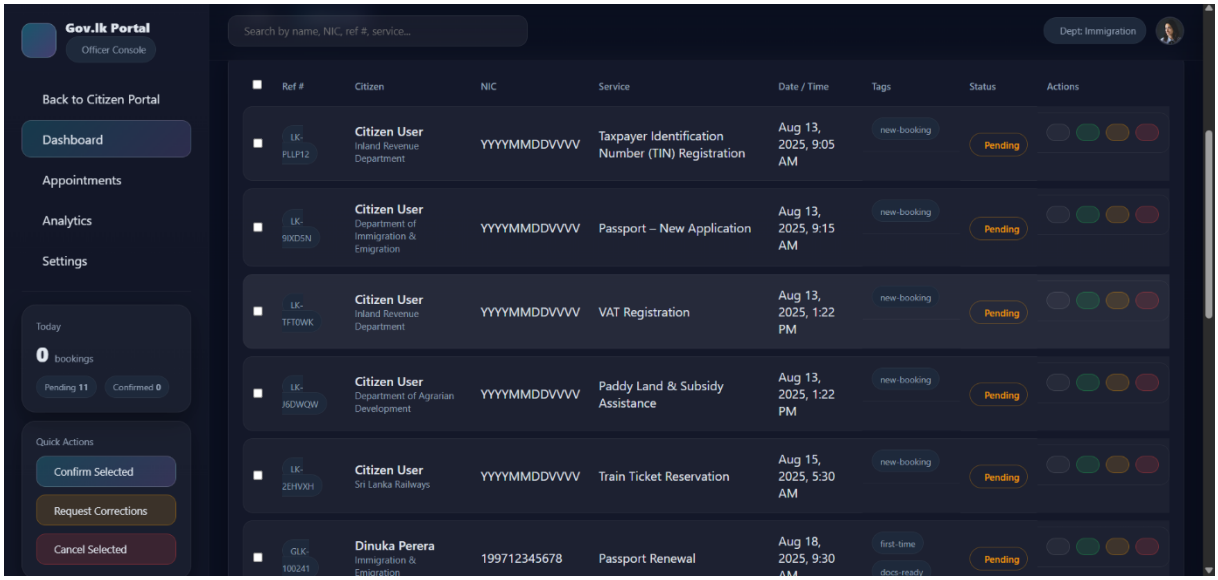

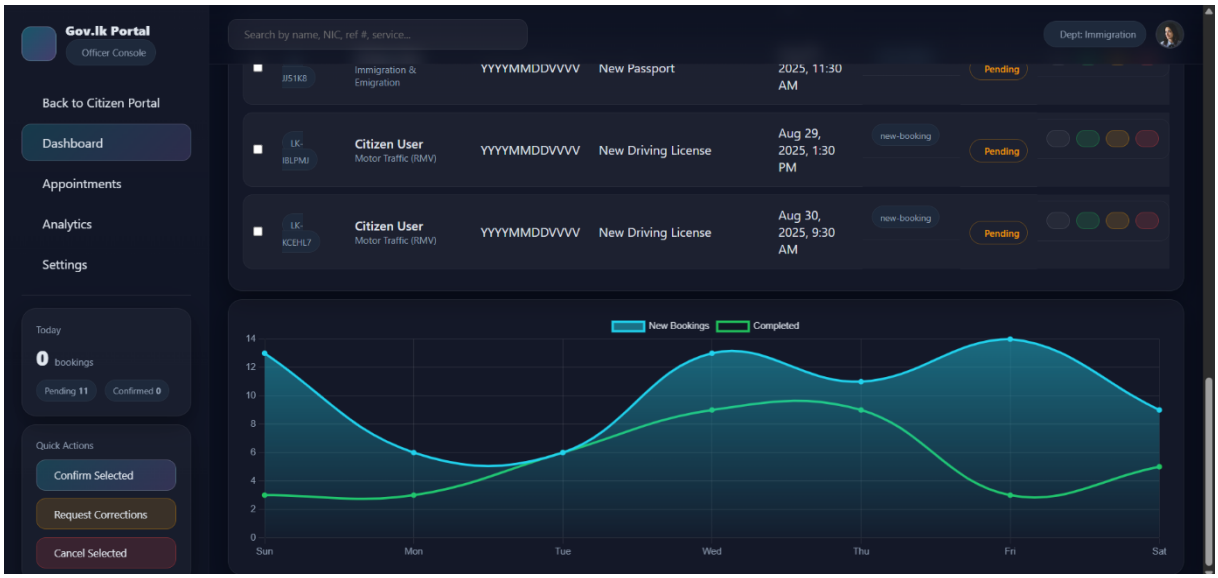

Team Members

- Sithum Yapa
- Senali Bandara
- Malindu Kavishan
- Remeena Hirushi
- Kassapa Arthasad
- Chathurani Sudharshika
- Vihanga Nawagamuwa
- Hasitha Induwara
- Samitha Sandaruwan