

CASE STUDY

Below is an excerpt from Interstate Travel Permit Application System Software Requirement Specification (SRS).

Interstate Travel Permit Application System

1.0 INTRODUCTION

1.1 PURPOSE

The purpose of this source is to describe the Interstate Travel Permit Application system which provides the service for travelers to apply travelling permit from and to their destinations namely,

- Registration of personal details.
- Application for traveling permit to another state.
- Covid-19 self-assessment.
- Cancellation of the application.
- Approval status of the application.

2.0 OVERALL DESCRIPTION

2.1 PRODUCT PERSPECTIVE

It enables disaster control officers to monitor travelers travelling around Malaysia especially for the purpose of limiting the spread of Covid-19 and contact tracing in case of positive cases, and for travelers to apply for permit to travel to another state.

2.2 PRODUCT FUNCTIONS

2.2.1 REGISTRATION OF TRAVELLER'S PERSONAL DETAILS

Travelers who wishes to travel to another state will use the system to register their details. The system keeps details of the travelers such as:

- Name
- Identity card number
- Telephone number
- Home Address
- Office Address
- Email address

2.2.2 TRAVEL PERMIT APPLICATION

Travelers who wishes to travel to another state will use the system to apply the travel permit. The system provides application form to enter travelling details such as:

- Travel purpose
- Start and end destinations
- Transportation mode
- Date of travel
- Travel history.

- Covid-19 test result.

2.2.3 COVID-19 SELF-ASSESSMENT

Applicants are required to self-assess their status for Covid-19. The system provides a few health related questions to be answered by the applicants such as:

- Is the applicant experiencing any of the following: severe difficulty breathing (e.g., struggling for each breath, speaking in single words), severe chest pain, having a very hard time waking up, feeling confused, lost consciousness, shortness of breath at rest, inability to lie down because of difficulty breathing, chronic health conditions that you are having difficulty managing because of your current respiratory illness, fever, new onset of cough or worsening of chronic cough, new or worsening shortness of breath, new or worsening difficulty breathing, sore throat, runny nose, chills, painful swallowing, stuffy nose, headache, muscle or joint ache, feeling unwell, fatigue or severe exhaustion, nausea, vomiting, diarrhea or unexplained loss of appetite, loss of sense of smell or taste, conjunctivitis (pink eye)
- Have you been in close contact with a confirmed case of COVID-19?
- The past 14 days, did you return from travel to red zone/high risk areas?

2.2.4 CANCELLATION

The traveler can choose to cancel the application even after the permit is approved, in case the traveler wishes not to make the travelling plan. Upon cancellation, the system sends the notification to traveler, airports, jetty check points and the police stations.

2.2.5 APPLICATION APPROVAL

After the application and self-assessment are submitted, the disaster control officer will evaluate the application and either to reject or approve the application. Once the approval results have been set, the system sends notification to inform the traveler, airports, jetty check points and the police stations.

3.0 PERFORMANCE REQUIREMENTS

- The system is available 24 hours daily.
- The system must perform as what the user expects without immediate delays.
- Opening of windows forms, displaying error messages, saving the settings or changing in between sessions must be below 3 seconds.
- Database queries and displaying of an application must be below 3 seconds.
- Login validation must be below 2 seconds.

4.0 SECURITY REQUIREMENTS

Uses object oriented mechanisms to protect its data passed using methods.

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