
NOMADS

NOMAD TRAVEL

(NT)

PRODUCT REQUIREMENTS DOCUMENT

Prepared by:
Camille Lewis
Mustafa Sameen
Nathaniel Curl

RELEASE DATE
MARCH 14, 2023

Table of Contents

Executive Summary	3
Document Versioning	4
Project Description	5
Features	6
Feature Matrix	6
Feature Description	7
E1 - User Profile Creation	7
E2 - Input of Preferences	7
E3 - Destination Generator	7
E4 - Invalid Entry Error Message	7
D1 - Visa and Travel Information	7
D2 - Recommended Places	8
D3 - General Country Information	8
D4 - Database of Countries	8
UX1 - Destination List View	8
UX2 - Country Images	8
UX3 - Single Country View	8
UX4 - Menu Options Display	8
UX5 - Login Display	9
User Stories	9
User Case 1	10
User Case 2	11
User Case 3	12
User Case 4	12

Executive Summary

NOMAD Travel (NT) is a mobile application that simplifies users' logistical travel planning. NOMAD Travel is intended to operate in the market similarly to Expedia, Canoe, and Hopper but includes unique features. NOMAD Travel will utilize travel regulation information from respective governments to provide the user with visa-dependent travel options. NOMAD Travel will utilize personalized e-commerce models and will be distributed as a stand-alone application on mobile devices.

This document provides nontechnical information regarding the purpose and behavior of NT.

Document Versioning

Date	Owner	Comment
Mar 2, 2023	Camille Lewis	Initial formatting, executive summary, and title page
Mar 2, 2023	Nathan Curl	User Stories added
Mar 2, 2023	Mustafa Sameen	Feature Matrix and Descriptions added
Mar 2, 2023	Nathan Curl	Added the Project Description
Mar 2, 2023	Camille Lewis & Mustafa Sameen	Added User Cases
March 14, 2023	Camille Lewis & Mustafa Sameen	Update Features with new requirements and edited features that needed revision.

Project Description

NOMAD Travel is attempting to break into the personal travel planning industry. The app is intended to target a gap that currently exists in the travel industry: travel regulation information, such as visa travel status, is not easily accessible to consumers of personal travel planning. NOMAD Travel will provide customized travel destinations and opportunities to users depending on their visa and location of origin. Nomad travel will also be able to recommend destinations to users based on preferences they set. NOMAD Travel will use information from travel laws and local governments to connect users to destinations, depending on whether or not they can easily travel to the destination with their Visa.

NOMAD travel must be standalone and not require any network connectivity. The NOMAD Application engines must be installable directly on end user hardware. To appeal to the largest Market, NOMAD travel should be hardware and operating system agnostic.

NOMAD travel will feature an intuitive and user-friendly Graphical User Interface (GUI) that allows travelers to navigate and interact with the app's features and content seamlessly. The GUI will be designed to be visually appealing and easy to understand. It will provide users with a comfortable and engaging experience and enhance the user experience to promote user engagement with the app.

NOMAD travel features a recommendation system that will intake user preferences including climate and activities and output ideal destinations for the user. The recommendation system is designed to offer the user desirable and logical choices for their next vacation, business trip, or getaway. It will save users time and effort with planning logistics of travel, activities, and accommodations. This efficiency will encourage users to travel more frequently using NOMAD.

Features

The feature matrix enumerates the features requested for the project and the discussion section provides details regarding the intent of the feature. The ids will be used for traceability. Features that all stakeholders have agreed can be removed should strike-through the feature id and have a comment added to discuss the feature being dropped.

Priority Codes:

H - High, a must have feature for the product to be viable and must be present for launch

M - Medium, a strongly desirable feature but product could launch without

L - Low, a feature that could be dropped if needed

Feature Matrix

ID	Pri	Feature Name	Owner	Comment	Case #
e1	H	User Profile Creation	Engineering		
e2	M	Input of Preferences	Engineering		
e3	H	Destination Generator	Engineering		
e4	H	Invalid Entry Error Message	Engineering		
d1	H	Visa and Travel Info	Data		
d2	M	Recommended Places	Data		
d3	H	General Country Info	Data		
d4	H	Database of Countries	Data		
ux1	M	Destination List View (GUI)	Design		
ux2	M	Country Images (GUI)	Design		
ux3	M	Single Country View (GUI)	Design		
ux4	H	Menu Display (GUI)	Design		

ux5	H	Login Display (GUI)	Design		
-----	---	---------------------	--------	--	--

Feature Description

E1 - User Profile Creation

Users can create a profile that captures their name, nationality, traveling document information, date of birth, and country they are residing in.

E2 - Input of Preferences

Users will be able to input their travel preferences, including their outdoor activity preferences and preferred destination types.

E3 - Destination Generator

The app will generate a list of potential travel destinations based on the user's preferences. This feature will make it easier to narrow down options and find the perfect destination.

E4 - Invalid Entry Error Message

The application will produce an error message to prompt the user to re-enter information if they have entered invalid information, or dates, into the application.

D1 - Visa and Travel Information

The app will provide the latest visa and travel regulation information for each destination. This feature will make it easier for users to determine if they are eligible to travel to a particular location.

D2 - Recommended Places

The app will curate a list of personalized recommendations for travel destinations within a country, based on user preferences and interests.

D3 - General Country Information

The app provides users with general information about the country, including cultural background, climate, cuisine, and other relevant details. This feature aims to help users understand the country's overall character and provide insight into what they can expect during their travels.

D4 - Database of Countries

The app has a comprehensive database of all countries worldwide that will store detailed information on each country's geography, history, culture, economy, government, and more. This feature aims to serve as a data storehouse of all the information we need to display in the cards of the destination list that is generated (E3) and the separate country view (UX3).

UX1 - Destination List View

After the list of destinations are generated, the user will be taken to a separate view where countries are designed in the form of cards in a table view and they can be clicked to get another separate view with additional information.

UX2 - Country Images

Each card will have a main card image of the country and then more images inside the separate view when clicked.

UX3 - Single Country View

After clicking on a card about a specific country, the user will be taken to a separate view where all the relevant information such as visa and travel regulations and also general information about the country will be displayed along with the list of recommended places to visit inside the country.

UX4 - Menu Options Display

At all times the user should be able to select the options, 1. Search destinations, 2. See favorites, 3. Update User information, and 4. Quit.

UX5 - Login Display

When the user enters the application, a login screen will be displayed that prompts the user to login if returning or create a new user account if a first timer user of the application.

User Stories

The primary users of NOMAD Travel are travelers of all kinds booking personal travel. Infrequent amateur travelers and informed business travelers alike; anyone curious about their personal travel opportunities is a target consumer of NOMAD Travel. NOMAD Travel aims to create a system that is accessible and helpful to a wide variety of users globally.

Lisa, a business professional

Lisa is 30 years old. She travels internationally for work anywhere from 2-3 times a month and has a limited amount of time to research the specific documentation she needs for each destination and activities to do during her free time. Lisa wants to use Nomad Travel to make her workflow more efficient so she can spend more time exploring the destinations she's visiting.

Shane, a full-time student studying abroad

Shane is 20 years old. He is from the U.S. but is studying abroad for his education. This involves making frequent trips between the U.S. and the country he is studying in. He wants to use Nomad Travel to ensure that he has a smooth transition between home and school.

Sally, an amateur traveler

Sally is 38 years old. She is an amateur traveler who likes to go places with her family. She has two kids and a husband. Sally wants to use Nomad Travel to make planning trips for a family of 4 easier.

Kinsale, a Doctor with the CDC

Kinsale is 45 years old. She is a doctor and primary researcher in mildly infectious viral diseases for the CDC. She frequently travels for work, commercially as well as part of her research, and often runs into issues with customs upon entering other countries because of lack of time to research visa requirements, or lack of clear information online to access the requirements. Kinsale would like to use an application such as NOMAD Travel to help minimize errors in her travel days and overall travel time for work.

Jordan, a mother of 5 and member of the Military.

Jordan is 50 and from London, UK. She works for His Majesty's Armed Forces and frequently moves with her family. They make a point to take family trips or opportunities to travel while they move, and often get the chance to visit obscure and normally difficult to get to places. Jordan would use NOMAD Travel to ensure smooth traveling for her family during their travel days. It is difficult for Jordan to plan and ensure straightforward

travel with such a large family, NOMAD Travel would be an asset to her time management.

User Case 1

Name	New user profile
ID	uc1
Description	The user makes a new profile
Actor	Traveler
Organizational Benefits	NOMAD Travel wants more travelers to create profiles and interact with the application
Use Frequency	Very Frequent
Triggers	User starts the application on their system with their profile information. The user has been prompted returning or new user, and selected new user.
Preconditions	The user has selected to create a new user account, not returning user.
Main Success Scenario	<ul style="list-style-type: none">• User enters name, nationality, and travel preferences• User profile recorded in database• System will use user profile to personalize recommendation experience
Extensions (error scenarios)	<ul style="list-style-type: none">• User leaves a blank field• User enters a DOB after the present date• User enters a non-existing country
Alternative Courses	<ul style="list-style-type: none">• System asks for user information again
Post Conditions	The application saves the user profile to a database and provides a list of recommendations to the user within a different view.

User Case 2

Name	Enter user information/preferences
ID	uc2

Description	The user enters travel preferences characteristics
Actor	Traveler
Organizational Benefits	NOMAD Travel wants more travelers to interact with the application and perform actions.
Use Frequency	Frequent
Triggers	The user has selected to create new user account, and has selected the text box to enter user information.
Preconditions	User has been prompted to login, and then has selected to create new user account.
Main Success Scenario	<ul style="list-style-type: none"> • User name and nationality recorded into the database • User location preferences recorded into database
Extensions (error scenarios)	<ul style="list-style-type: none"> • User leaves a blank field • User enters unrecognizable characteristic works • User enters characteristics that result in no result from our destination list
Alternative Courses	The user has selected to update user information and the view displays a similar text box option to enter user information/preferences.
Post Conditions	System uses recorded user characteristics to parse a list of destinations and create a list of personalized destinations based on recorded user profile and characteristics. User preferences and information are saved to user profile database.

User Case 3

Name	Click on a country card
ID	uc3
Description	The user clicks on a country card from the destination list
Actor	Traveler
Organizational Benefits	NOMAD Travel wants more travelers to interact with the application and perform actions.
Use Frequency	Frequent
Triggers	System opens a separate view that displays selected country information

Preconditions	The application shows a list of destinations curated to the user preferences and profile
Main Success Scenario	<ul style="list-style-type: none"> • User can see general information, travel and visa information, and recommended places to go, about the selected country • User is taken to another view that displays only information about the selected country
Extensions (error scenarios)	<ul style="list-style-type: none"> • System presents an error
Alternative Courses	<ul style="list-style-type: none"> • System displays a blank page
Post Conditions	The application displays information about selected country

User Case 4

Name	Switch between Menu options
ID	uc4
Description	The user switches between different menu options from the menu view while one of the menu options is selected
Actor	Traveler
Organizational Benefits	NOMAD Travel wants more travelers to interact with the application and perform actions.
Use Frequency	Very Frequent
Triggers	User has selected another menu option which opens the view for that particular menu option
Preconditions	The user is already in a menu option view like "Destinations".
Main Success Scenario	<ul style="list-style-type: none"> • User is able to switch to another view depending on his selection of buttons (example: show favorites) in the menu view.
Extensions (error scenarios)	<ul style="list-style-type: none"> • User closes the application • User doesn't click on a button
Alternative Courses	

Post Conditions	System returns the User the selection menu option view.
-----------------	---