

Elk River project

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1 Introduction

1.1 The Elk River problem

Quick explanation of the problem

1.2 Stakeholders

1.3 Definitions, acronyms and abbreviations

What follows is the list of all the main terms and abbreviations used in the document.

1.3.1 Definitions

- **Reservation**: data referring to the wish of the user to have the specified service at that time for himself.
- **System**: All the software needed to deliver every functionality needed.

1.3.2 Acronyms

- BPMN: Business Process Model and Notation
- SDK: Software Development Kit
- API: Application Programming Interface
- **DB**: Database
- DBMS: Database Management System

1.3.3 Abbreviations

No other abbreviations aside from acronyms were used.

1.3.4 Revision History

• 29/05/2019 First draft of the basic structure

2 Overall Description

2.1 Proposed project solution

Elk River area resources

Project structure

The final system is going to be divided in two main components:

- 1. Mobile application version for phones and tablets.
- 2. Backend structure to support the functioning of the service.

While the backend structure is needed for the functioning of the service provided, the user will never interact with it but will ever only see and use the mobile application. A more detailed view will be explained in 8.1

2.2 Product Functions

TO BE EXPANDED

- 1. Register to the system with email and password.
- 2. Logging to the service.
- 3. Manage the information of an account.
- 4. Create or delete a reservation.

2.3 User Characteristics

The users interested in using the system should be at least familiar with the concept of using a smartphone in the day to day routine without needing any technical competence regarding the topic, they must be aware of the laws regarding fishing, they should also know how to traverse the environment and have basic first aid knowledge if they wish to work as fishing experts.

2.4 Goals

The project is designed to satisfy the user needs, or (in other words) to achieve certain specific *Goals* stated in the following list.

TO BE EXPANDED

Goal.1: Allow anyone that owns a smartphone to become a registered user of the service.

Goal.2: Create and later manage reservations.

3 Target Group and Personas

- **3.1** Target Group Fishing Enthusiasts
- 3.2 Personas

Bob The Fishing Enthusiast

Jack The Tourist Fisherman

4 Thinking Hats

- 4.1 White Factual
- 4.2 Red Emotional
- 4.3 Yellow Logical
- **4.4** Black Cautious
- 4.5 Green Out of the box
- 4.6 Blue Management

5 Customer Journey

6 Business Process Model and Notation

7 Data Analysis

8 Prototype - Mobile Application

8.1 Application Structure

9 Appendix

10 Software & Services Used

- 1. Texmaker as an editor for LATEX.
- 2. Git & GitKraken
- 3. Android Studio
- 4. Firebase