Lab 2 - Product Specification Outline

Jennifer Tate

Old Dominion University

CS411W

Janet Brunelle

February 26, 2018

Version 1

Table of Contents

Table of Figures

Lab 1 – RocFamily Product Specification Outline

## 1. Introduction

Families have their lives forever changed upon the diagnoses of pediatric cancer. The pediatric cancer patient and their family can experience feelings of isolation, frustration, stress, and boredom. They may be lacking support, or struggling financially, while dealing with the constraints of their child being constantly hospitalized, typically in an unfamiliar geographic area. To assist these patients and their families, Roc Solid Foundation (RSF) was formed.

Roc Solid Foundation is a non-profit organization who, by their own definition, "builds hope for children battling cancer and their families by offering opportunities for them to do what they do best – play (RSF, 2018)." Roc Solid Foundation has two programs that provide support and build hope for pediatric cancer patients and their families. Play It Forward provides pediatric cancer patients, between the ages of one and eight, with a custom playset in their backyard and provides pediatric cancer patients, between the ages of eight and 18, with a complete room makeover. Ready Bags provide families of pediatric cancer patients with essentials needed for their unexpected hospital stay. This includes, but is not limited to; toiletries, a blanket, a prepaid debit card, a journal, and a tablet. The Ready Bag does not provide direct support. The Ready Bag also does not provide families with discounts and deals to simplify their lives and ease the strain of financial burden or give access to local events, games, and movies (Figure 1).
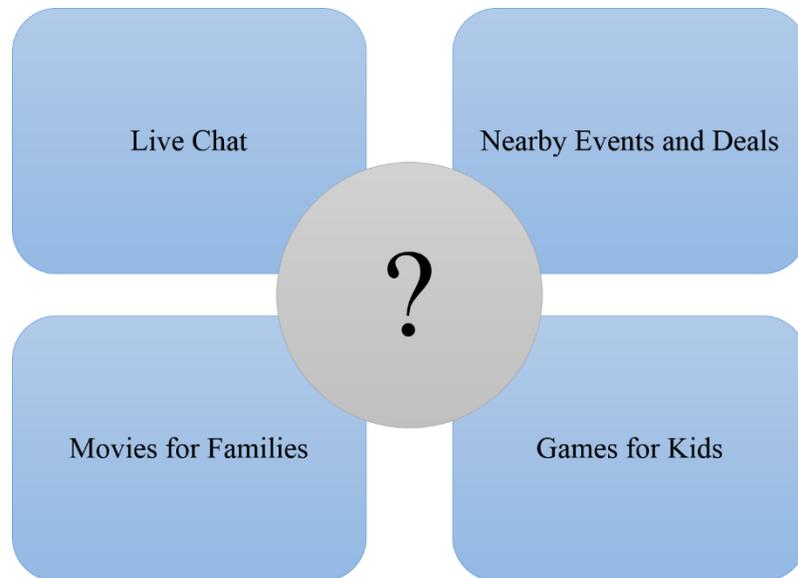
Figure 1. Current Process Flow

**1.1 Purpose**

The Roc Solid Foundation needs a web application that allows pediatric cancer patients and their families access to multiple areas of support. In addition, Roc Solid Foundation needs the web application to provide pediatric cancer patients and their families with access to events, deals, games, and movies to provide pediatric cancer patients, and their families, with a means to alleviate stress and distract themselves during their hospital stay. The solution must provide 24-hour access to support for families in need. The solution must allow Roc Solid Foundation to maintain an updated database of events, deals, games, and movies. Old Dominion University's CS 411W - Professional Workforce Development II's Crimson Team proposes a web application solution called "RocFamily".
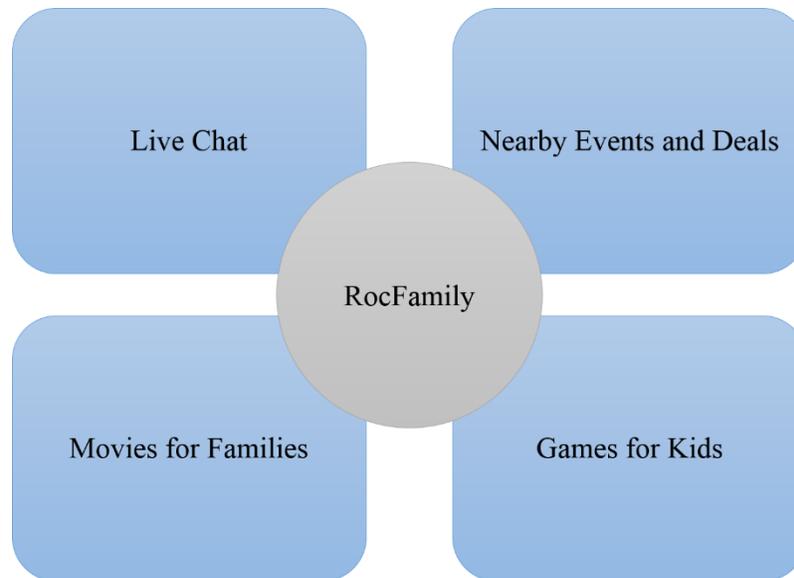
Figure 2. Proposed Process Flow

**1.2 Scope**

RocFamily is a website built in AngularJS that is compatible with a variety of web browsers such as Google Chrome, Mozilla Firefox, and Microsoft Internet Explorer. RocFamily will provide two login areas, one for patients, and their families, and one for Roc Solid Foundation's administrators. The patient, and family, login will provide the RocFamily member with access to a live chat, nearby deals and events, movies for families, and games for kids. The Roc Solid Foundation administrator login will provide access to the administrator chat notifications and an area to create, edit, and delete deals, events, movies, and games.

**1.3 Definitions, Acronyms, and Abbreviations**

**Roc Solid Foundation:** Builds hope for children battling cancer and their families by offering opportunities for them to do what they do best – play

**Play It Forward:** Builds custom playsets in the backyards of children ages 1 – 8 fighting cancer and completes room makeovers for children ages 8 – 18

**Ready Bag:** Includes everything a family might need for their unexpected hospital stay –
toiletries, a blanket, a prepaid debit card, a journal, a tablet, and more

**RocFamily:** An application that is preloaded onto the tablet provided in the Roc Solid Ready
Bag, which offers comfort support for parents and entertainment for children, during this
stressful time in their life

**1.4 References**

CureSearch CancerCare App | CureSearch. (n.d.). Retrieved October 20, 2017, from

   https://curesearch.org/CureSearch-CancerCare-App

Mobile MyMSK. (n.d.). Retrieved October 20, 2017, from

   https://www.floridaproton.org/patients-families/pediatric-app/

Pocket Cancer Care Guide. (n.d.). Retrieved October 20, 2017, from

   https://www.canceradvocacy.org/resources/pocket-care-guide/

Roc Solid Foundation (n.d.). Retrieved October 04, 2017, from

   http://rocsolidfoundation.org/who-we-are/our-mission/

Simplysayin. (n.d.). Retrieved October 20, 2017, from

   http://www.mediakube.com/simplysayin/

University of Florida Health Proton Therapy Institute. (n.d.). Retrieved October 20, 2017, from

   https://www.floridaproton.org/patients-families/pediatric-app/

**1.5 Overview**

This product specification details the goals of the Rocfamily prototype. It provides a
foundation of the project's goals. The specification relies upon the design of the website
interface to closely align with the final product design. The prototype's final form should be

Lab 2 - RocFamily Product Specification Outline 7 close to the final form of the real-world product. The list of requirements will match the ones that are needed for the final product.

## 2. General Description

RocFamily is a website that will be developed by Crimson Team to provide pediatric cancer patients and their families with a means to communicate, via live chat, with Roc Solid Foundation's staff and volunteers. In addition, the RocFamily website will allow Roc Solid Foundation the ability to provide information on events, deals, games, and movies. The RocFamily website will be compatible with various web browsers including Google Chrome, Mozilla Firefox, and Microsoft Internet Explorer.



RocFamily Internet Accessible Device

- Compatible with Safari
- Compatible with Chrome
- Compatible with Internet Explorer

RocSolid Server

RocFamily Server

- Shared with RocSolid server

RocFamily Database

- Chat functionality algorithms
- Password algorithms
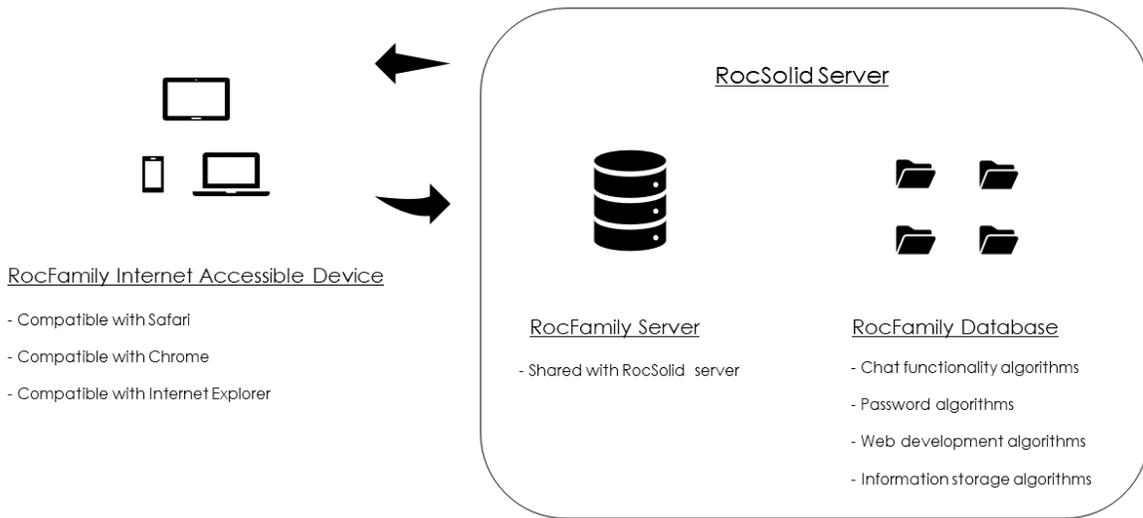- Web development algorithms
- Information storage algorithms

Figure 3. Major Functional Component Diagram (MFCD)

### 2.1 Prototype Architecture Description

The RocFamily prototype would contain a test administrator account for creating test events, deals, movies, and games. The primary purpose, however, of the test administrator

account would be to ensure chat functionality, including the notification system of incoming

messages. The RocFamily prototype would also need a test user account to test account creation,

password reset, chat functionality, and all links to deals, events, movies, and games.

**2.2 Prototype Functional Description**

The RocFamily prototype with be hosted through Old Dominion University. The

RocFamily prototype will use a test database to create and manage the fake user accounts, fake

administrator accounts, and test data for the deals, events, movies, and games. We will utilize

Google Chrome, Mozilla Firefox, and Microsoft Internet Explorer to ensure web browser
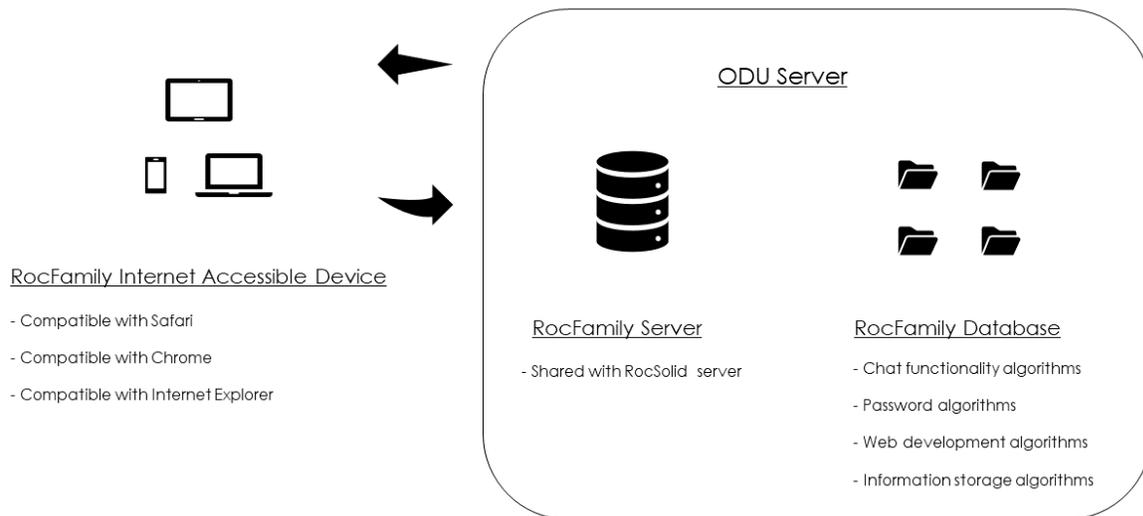
compatibility.



Figure 4. Major Functional Component Diagram (MFCD)

**2.3 External Interfaces**

The RocFamily prototype will be accessed through multiple browsers including Google

Chrome, Mozilla Firefox, and Microsoft Internet Explorer. In addition, the RocFamily prototype

will need to work with multiple devices containing multiple operating systems. The RocFamily

prototype will be built in Unix and utilize AngularJS.