

Lab II – RocFamily Website

CS 411W Lab II

Prototype Product Specification
For
Roc Family

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Date: March 20th, 2018

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1 Introduction

1.1 Purpose

The RocFamily website will be convenient and easy to use. The website provides a live chat application for parents/guardians that will communicate with a member of the RocFamily staff. This will be available for Chrome, Firefox, Safari and Internet Explorer/Edge web browsers. The product will have a pre-loaded link on an Android-based tablet in the Ready Bag. This tool will promote communication between RocFamily staff and families. This will save time by eliminating outdated communication methods and will provide a history in order for the family to reference back to in the live chat area.

1.2 Scope

The prototype will enable RocSolid Foundation Staff and Volunteers to speak with the families and patients. The families will receive the Android-based tablets that come preloaded with the RocFamily link. This link will connect them to the website in order to communicate with the staff, provide access to movies, and provide access to games. The patients will primarily use the device for the movies and games section. Risk mitigation for this product is that it will be easy to use, have a low adoption rate, search for broken links, use best practices for data security and have automated platform control. During the prototype simulation a RocSolid Staff account will be available, as well as the family, and the test account. This will be simulated remotely and on-site.

1.2 Definitions, Acronyms, and Abbreviations

- RSF: Roc Solid Foundation
- Roc Solid Foundation - builds hope for children battling cancer and their families by offering opportunities for them to do what they do best – play.
- Roc Solid 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
- Roc Solid 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.
- Roc Family - 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.

1.3 References

Building Hope. (n.d.). Retrieved February 04, 2018, from <http://rocsolidfoundation.org/>

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

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Lab 1 RocSolid Website, Hipolito Dominguez

1.4 Overview

This is an overview of the Roc Family prototype. This document highlights the products architecture, functions, and external interfaces. The architecture section outlines the products major components and summarizes their purposes. The function section outlines what the product performs. The external interfaces outline the hardware, software, and user interfaces.

2 General Description

2.1 Prototype Architecture Description

RocSolid Website is comprised of the following major components:

Roc Family Server

- Ran on Old Dominion web server, Apache
- Split into web server and database server

Roc Family Web Application

Families and patient login

- Chat page: provides communication between the RocSolid Staff and Volunteers to communicate with the patient and the patient's family.
- Movies page: provides a link to an outside source for movies.
- Games page: provides a link(s) to an outside source for kid friendly games.
- Event page: provides a listing of nearby events.
- Coupons page: provides a listing of coupons for the family to use.

Roc Staff login

- Edit movies page: able to edit the links for access to movies.
- Edit Games page: able to edit the links for the game websites.
- Edit event page: able to edit the listing of events.
- Edit Deal page: able to edit the listing of deals.

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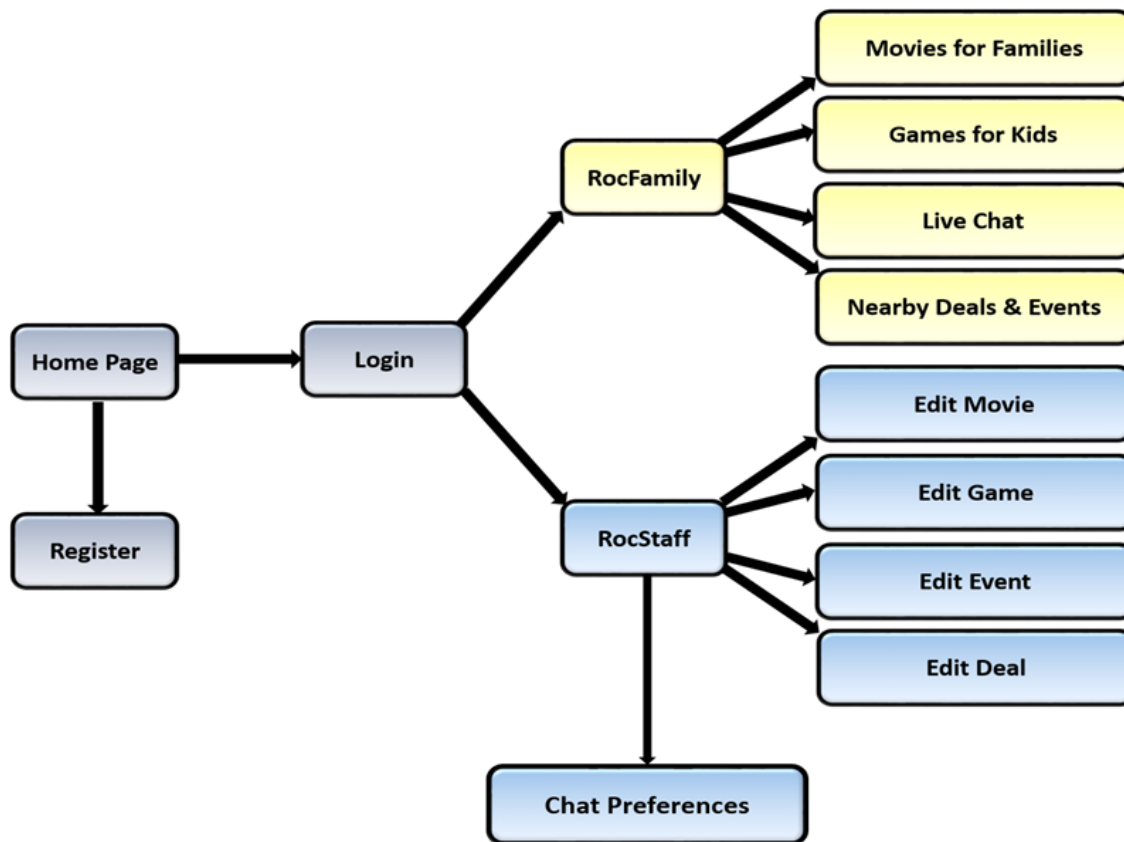


Figure 1: Site Map

Tablet

- Roc Solid provided tablet (list tablet types)



Figure 2: Major Functional Component Diagram

2.2 Prototype Functional Description

The major functional components of the RocFamily website include the following:

Patient and family functions

- Live Chat: This function provides the capability to communicate with the RocSolid Staff and Volunteers. This also provides chat histories for the family to access.
- Movies: This function provides a link to an outside source approved or partnered with RocSolid.
- Games: This function provides a link to an outside source for family friendly games.
- Events and deals: This function provides a listing of events that are nearby. This function also provides access to nearby deals.

Roc Solid Staff functions

- Access to User Database: This function provides the ability to search Users, edit users, query user information, store chat history, and edit password information.
- Live Chat: This function provides the ability to store live chat information. This function also provides the ability to display chat history.
- Games: This function allows RocSolid Staff and Volunteers to edit the links for family friendly games.
- Movies: This function allows RocSolid Staff and Volunteers to edit the links for their approved movie source.

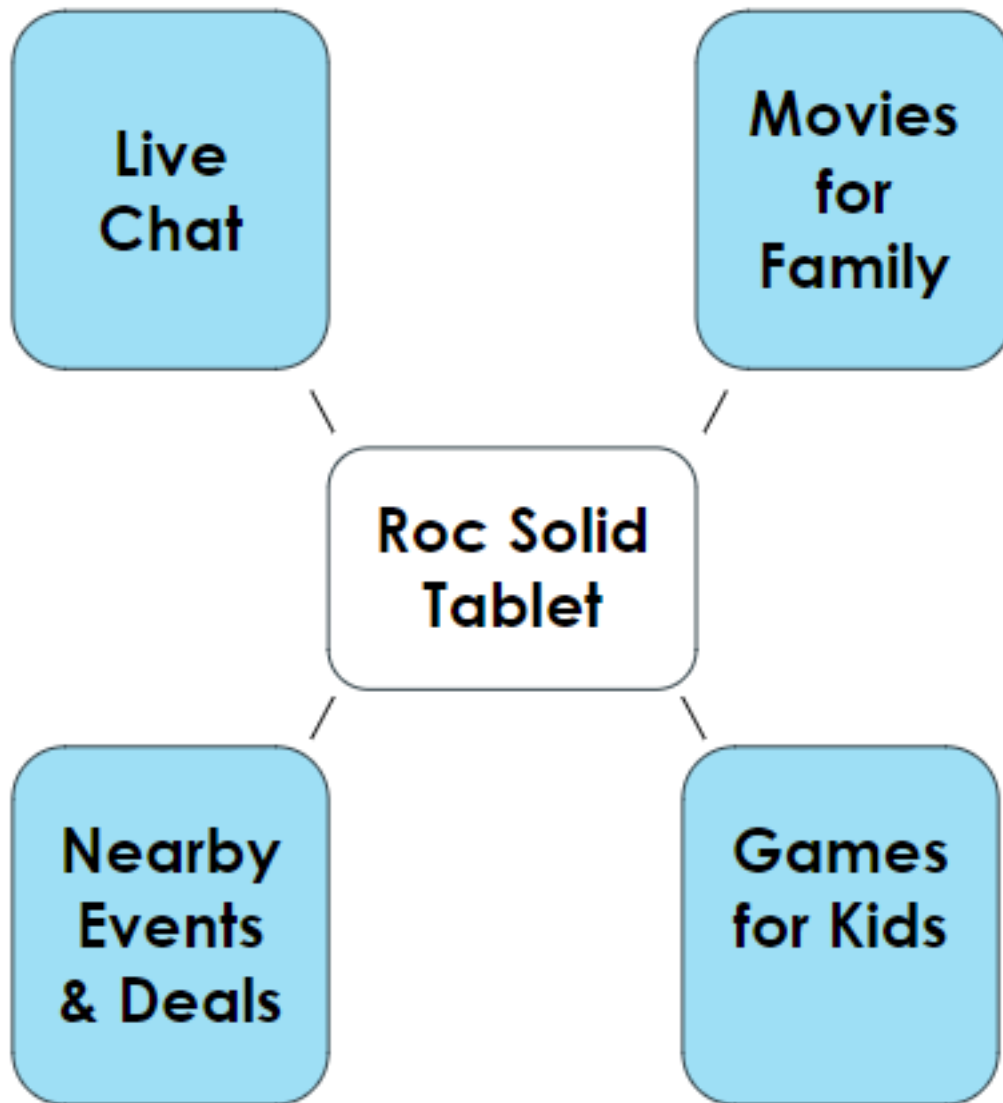


Figure 3: Patient and Family Solution Process Flow

2.3 External Interfaces

2.3.1 Hardware Interfaces

- Touch screen on tablet

2.3.2 Software Interfaces

- Database Interface
- Angular.JS

- MongoDB
- NeonCRM

2.3.3 User Interfaces

- Web Page Interface
- Keyboard for data entry
- Computer/Monitor