

Lab II - Product Specification Outline
Section 1 and 2

CS 411W Lab II

Prototype Product Specification
For
Roc Family

Date: February 13th 2018

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1 Introduction

1.1 Purpose

- Live chat application for parents or guardians
- Convenience
- Intuitive and easy to use
- Available for Chrome, Firefox, Safari, and Internet explorer web browsers
- Pre-loaded on RSF link distributed Android-based tablets
- Promote communication between RSF staff and families
- Save time by eliminating outdated communication methods- e.g., fax

1.2 Scope

Application Description

- Families and Patients
- Live chat with RSF staff
- Movies
- Games
- Events
- Coupons

RSF Staff/volunteers

- Live chat
- Add/delete user
- Add/delete movie
- Add/delete game
- Add/delete event
- Add/delete coupon

Prototype Execution

Test multiple scenarios and configurations of:

- RSF account
- Family account

1.2 Definitions, Acronyms, and Abbreviations

- PHP: Server scripting language
- MySQL: Relational database management system
- Apache2: Web server
- 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/>

Lab 1 Collaborative Outline, Roc Family

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

Roc Family Server

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

Roc Family Web Application

Families and patient login

- Chat page
- Movies page
- Games page
- Event page
- Coupons page

Roc Staff login

- Edit movies page
- Edit Games page
- Edit event page
- Edit Deal page

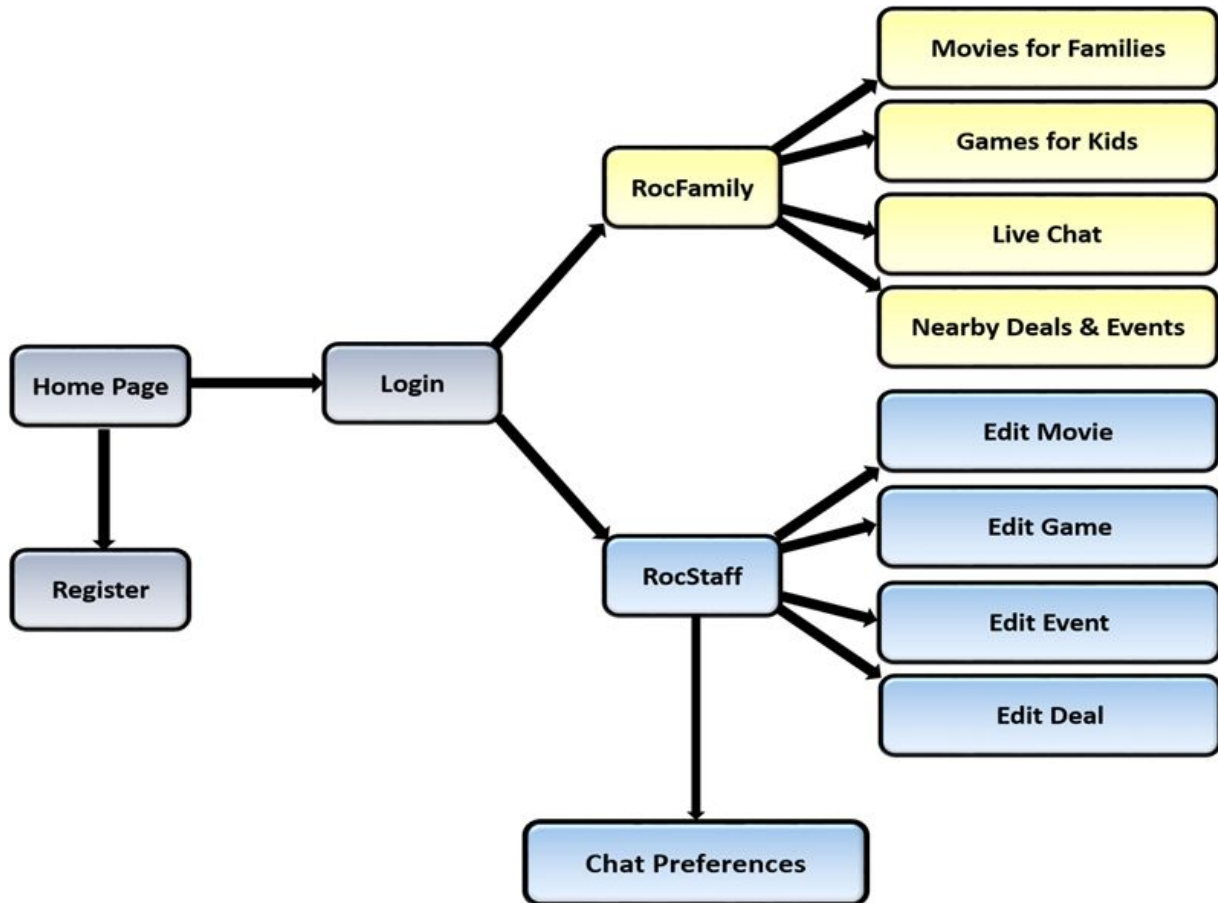


Figure 1: Site Map

Tablet

- Roc Solid provided tablet (list tablet types)

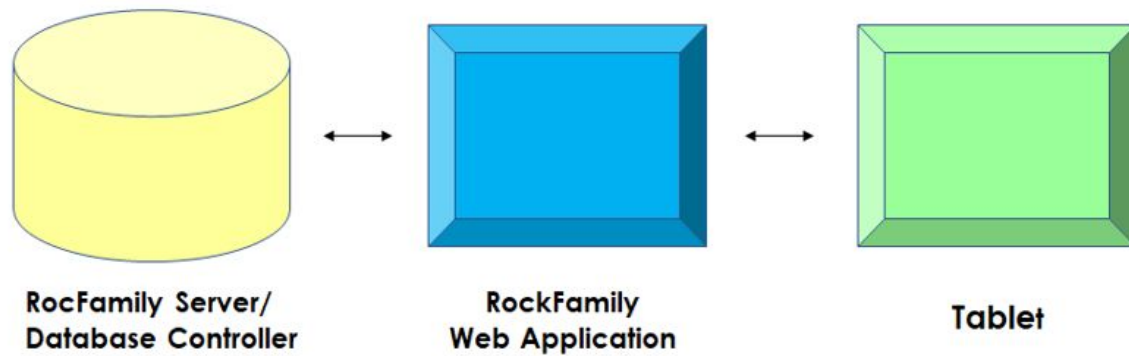


Figure 2: Major Functional Component Diagram

2.2 Prototype Functional Description

Patient and family functions

Live Chat

- Real time chat with Roc Solid staff
- Saved conversations

Movies

- Links to free movies

Games

- Links to free games

Events and deals

- RSF approved events
- Local coupons and deals

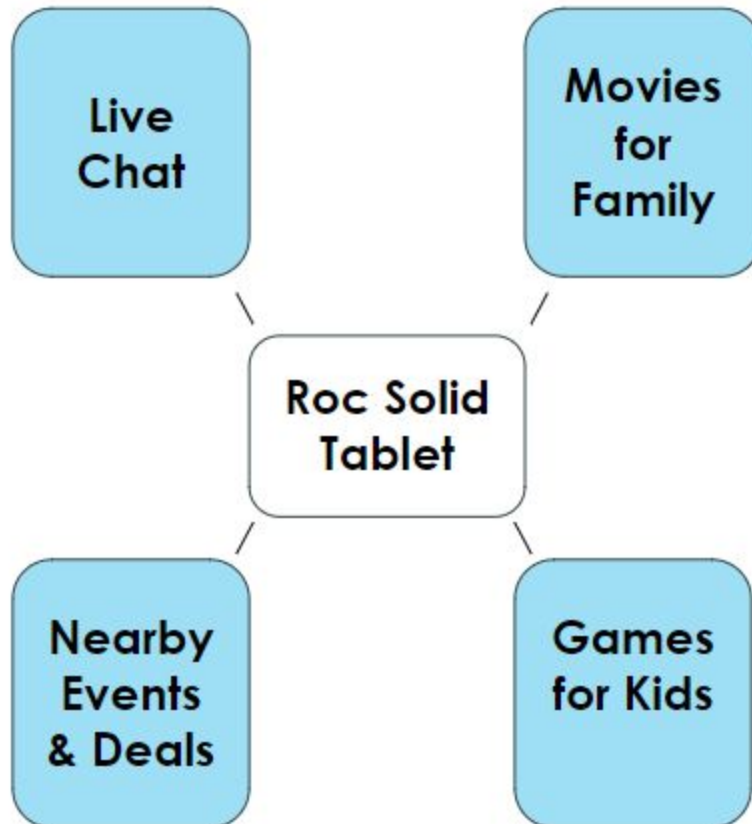


Figure 3: Patient and Family Solution Process Flow

Roc Solid Staff functions

Access to User Database

- Search Users
- Add,edit,delete users
- Get user information
- Get chat history for user
- Password recovery

Live Chat

- Real time chat with Roc Family users

Games

- Add/delete games

Movies

- Add/delete movies

Events

- Add/delete events

Coupons Deals

- Add/delete coupon deal

2.3 External Interfaces

2.3.1 Hardware Interfaces

- Touch screen on tablet

2.3.2 Software Interfaces

- Database Interface

2.3.3 User Interfaces

- Web Page Interface