

Lab 1 – Roc Family Website Description

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1. Introduction

When a child has cancer, it is not only tough on the child but it is also tough on the entire family. The family can feel isolated with a lack of support. They also have the added stress of paying for medical treatment which can cause them to struggle financially. The kids are constantly in the hospital which can cause them to be bored. The whole family also may have to deal with adjusting to a new geographical area. A solution to these problems would include a live chat for the family to talk to people and get support when they don't know what to do. It should also have games and movies for entertaining the kids when they are bored. A solution should include a list of nearby events and deal. Our solution to these problems is the Roc Family mobile website. The Roc Family website will include a live chat for the family to talk to the Roc Solid Foundation. It will also include separate lists of age appropriate games and movies as well as a page for events and deals nearby.

2. Product Description

The Roc Family website will provide a one stop shop for families of sick children with features for the parents and children. It will have a chat functionality that allows the parents or guardians to talk with Roc Solid Foundation staff. The Website will also have an intuitive and easy to use interface. It will be able to run in Google Chrome, Firefox, Safari, and Internet Explorer web browsers. The families will receive an Android-based tablet that has the Roc Solid Foundation link pre-loaded. The website will save time by eliminating the need for outdated communication methods like fax.

2.1 Key Product Features and Capabilities

The Roc Family website will provide improved communication, improved communication and support for families with children suffering from cancer. The live Chat will allow for communication with the Roc Solid Foundation team. The movies and games will help keep the

children entertained during procedures or in their spare time. The Nearby Events and Deals will show the family what is going on the local area.

2.2 Major Functional Components

The website will be hosted on a web server. It requires SQL database server to host the database.

The Website will start off by authenticating the user by requiring them to log into their account.

There will be an admin page that allows an administrator to update the website with new games, new movies, etc. A user will be able to see a page for movies, games, and nearby events and deals. There will also be a chat functionality that allows a user to communicate with the Roc Solid Foundation.

3. Identification of Case Study

There are a few applications out there that already try to help children with cancer and their family. There is CureSearch CancerCare mobile app which helps to keep track of treatment dates, medication schedules, as well as tracking a patient mood and side effects. There is a Pocket Cancer Care Guide that is a list of questions to doctors and answers sorted in categories for each stage of cancer. Simply Sayin is a mobile app that helps medical professionals to explain medical terminology. Proton U is a mobile app that helps prepare pediatric patients for proton therapy. Mobile MyMSK is a mobile app that links to Memorial Sloan Kettering Cancer center that helps track medication, view labs, and more. Although these solutions help cancer patients, none of them help deal with the mental and economical effects of cancer especially when it involves children. The problems like a family feeling isolated, a family having a lack of support, the financial struggles of cancer, and the boredom of children during cancer treatments may be covered by a combination of solutions but there is not one that helps with all of these problems.

The Roc Family Website could be used by Roc Solid Foundation staff, Roc Solid Foundation volunteers, a patient's family, or the patient themselves. The child will use the website to entertain themselves during treatment. The family will use the website to find entertainment for the patient, seek help from the Roc Solid Foundation, or find deals in the local area. The Roc Solid Foundation staff and volunteers will be able to help families with questions as well as update the website.

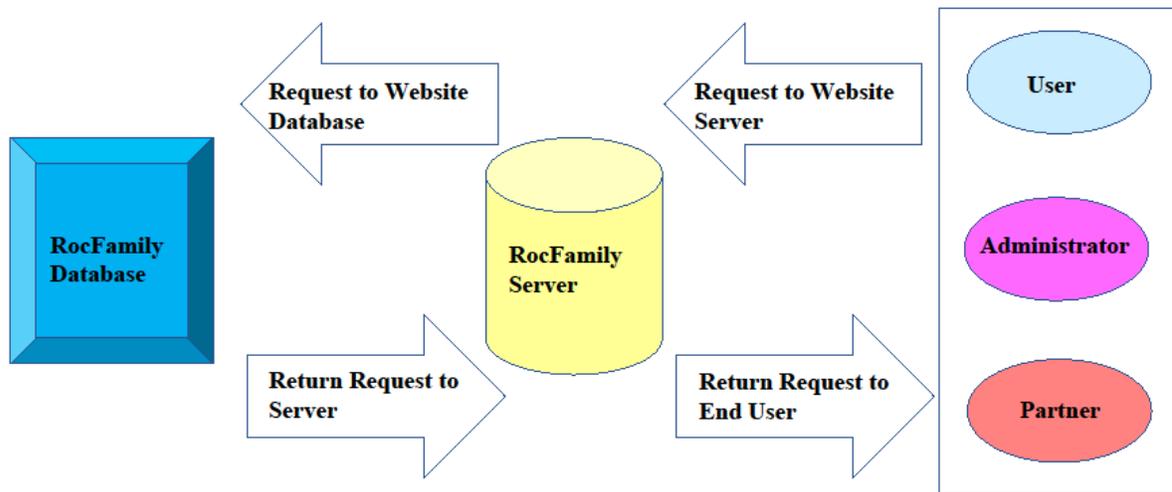
4. Product prototype description

When the prototype is complete a Roc Solid Foundation staff member or volunteer will be able talk to a family through the chat functionality. The chat functionality will notify when a message is received. The families will receive a tablet that has been pre-loaded with a link to the website. They will be able to communicate with the Roc Solid Foundation Staff, play movies and play games. There are a few risks that come along with the Roc Family Website. There is the risk that there will be a lack of adoption, and security issues. The lack of adoption will be mitigated by making the website very easy to use. The security issue will be dealt with by using best practices for data security. The prototype will can be tested with Family accounts and admin accounts using multiple devices and can be simulated remotely and on-site.

4.1 Prototype Architecture

The prototype will be hosted on a Computer Science Virtual Machine. On the Virtual machine will also be the RocFamily Database. The Roc Family website will require one to log in before gaining access to anything. The chat functionality will also require a login to gain access. The prototype will include a chat functionality. It will also include a website for admins. The Roc Family website will include the ability to view movies, play games, and to brows local deals and events.

Major Functional Component Diagram



4.2 Prototype Features and Capabilities

The chat functionality will allow for messages to be sent back and forth. It will notify when a message is received. The chat will create logs of the conversations. The prototype webpage will have admin pages that allow for the deletion, creation, and update of games, movies, and nearby events and deals. The webpage will have a login that is required before accessing the entire site and before accessing the chat. The login for the chat and the entire website will be the same. The prototype will include a separate pages for games, movies, and local deals and events.

4.3 Prototype Development challenges

There is always a security risk involved with anything connected to the internet. The Roc family website will have to deal with those risks as well as others. A challenge of making the website is testing since testing a user interface is not as simple as testing background code.

5. Glossary

- 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.
- 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.

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