

Lab 1 RocFamily Mobile Website Platform

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1. Introduction

One of the most difficult moments a family can go through is the diagnosis and treatment of a child with cancer. The family can feel isolated when they suddenly find themselves in a new geographic area. They are new challenges that people who go through this face, such as financial struggles with the new medical bills from constant hospitalization, feeling a lack of support, and keeping the pediatric patient from feeling boredom. Solutions to these new challenges are providing access to games, movies, and events for the patient as well as their family. An easy to access list of events and deals. A live chat will provide support in a time where being fully supported is challenging. The RocFamily Mobile Website Platform (MWP) provides central access to each of these solutions.

2. RocFamily Mobile Website Platform Product Description

The RocFamily MWP will be convenient and easy to use. The MWP provide a live chat application for parents/guardians that will speak with a member of the RocFamily staff. This will be available for Chrome, Firefal, Safari and Internet Explorer/Edge web browsers. The product will come pre-loaded on an Android based tablet. 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 This will save time by eliminating outdated communication methods and will provide a history in order for the family to reference back to in the live chat area.

2.1. Key Product Features and Capabilities

The product will provide real time data for the users. This will not only improve communication, it will also help improve coordination between the users and RocFamily staff. This will provide support for families with children that are suffering from cancer. The MWP

will provide movie and game access for the family. RocFamily staff can list events and deals that are nearby the patient's hospital.

2.2 Major Components (Hardware/Software)

Figure 1 illustrates the major functional components for the MWP. The SQL database and web server will communicate with the MWP that is pre-loaded on the Android based tablet. The software that will develop is chat functionality, ability for the admin to update the website, end user capabilities and authentication. Software requirement is a web browser for the MWP.



Figure 1

3. Identification of Case Study

Research into the challenges that families face with a pediatric cancer diagnosis brought up multiple applications to help them in their time of need. This brought up effects on RocFamily productivity. Figure 2 shows the different applications that are in the current market. However, this also illustrates how the RocFamily MWP meets the demands for each challenge. The research is for isolation, lack of support, struggling financially and boredom. This MWP will be for RocSolid Staff, RocSolid Volunteers, the patient's family and the patient themselves.

Features	RocFamily vs. Competitors					
	RocFamily	CancerCare	Pocket Cancer Care Guide	Simply Sayin'	Proton U	Mobile MyMSK
Find Games for Kids	✓	✗	✗	✗	✓	✗
Find Age Appropriate Movies	✓	✗	✗	✗	✗	✗
Look for Support	✓	✓	✓	✓	✓	✓
Find Local Events	✓	✗	✗	✗	✗	✗
Find Coupons and Deals	✓	✗	✗	✗	✗	✗

Figure 2

4. RocFamily Product Prototype Description

The prototype will provide the RocFamily Staff and Volunteers with a live chat for keeping in touch with the family that is using the Andriod based tablet. The prototype will provide access for movies and games. The patients will be able to follow a link for movies and games in order to use both of those aspects of the product. This product will be easy to use for the patient, the patient’s families and RocFamily staff. The staff will ensure that there are no broken links on the MWP. There will be automated platform control to help ensure data security. During the simulation there will be multiple devices to view the multiple accounts that will be in use. There will be three accounts for the simulating; the RocFamily staff account, the family account and a tester account. This will be simulated remotely and on-site.

4.1 Prototype Architecture

The prototype will include the same build from the overall components and in addition the prototype will also have development team members. Figure 3 shows these items and other components. There will be a database algorithm with a submission script for the live chat and the

web site interface. The build for the prototype will be on a virtual machine that will house the database server. This will be where the MWP prototype will be constructed. The software in development is a chat functionality, end user interface, admin interface and authentication for security.

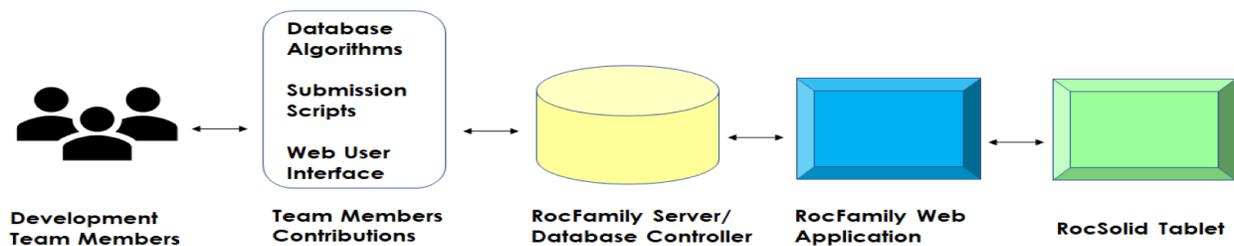


Figure 3

4.2 Prototype Features and Capabilities

The features of the prototype will have chat functionality. This will include logs of previous chats, the ability for users to input and notification when there is a new entry. The admin will be able to update the website. They will have the ability to create, delete and update on the MWP. The end user will be a touch driven interaction for the interface. The authentication will provide a secure website. The capabilities for the prototype MWP is RocFamily integration, database for storing user information and an event calendar that the RocFamily staff can update events. The prototype will also have tester capabilities for the development process.

4.3 Prototype Development Challenges

The development challenges for the prototype MWP will be integrating with RocFamily,

web application security, testing and deployment. The prototype will need to interact with not only the database for RocFamily but, the previous database from previous a RocSolid application. The prototype will access that database to create data for the MWP prototype.

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5. Glossary

- SQL: Relational database management system
- Roc Solid Foundation - builds hope for children battling cancer and their families by offering opportunities for them to do what they do best – play.
- 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.
- MWP – Mobile Website Platform

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