

Grambling State University

Executive Summary of RecoverIt mobile application

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Introduction

According to the Small Business Administration, a small business is defined as an enterprise having fewer than 500 employees. Today, there are almost 28 million small businesses in the US, and they have generated over 65% of the net new jobs since 1995. Further statistics also reveal that the small business sector is growing rapidly with revenues from non-employers totaling \$989.6 billion in 2011, and have been rising ever since.

I. Problem

Forty percent of businesses do not reopen after a disaster and another 25 percent fail within one year according to the Federal Emergency Management Agency (FEMA). It is a common misconception that insurance awards and aid from government agencies will allow merchants to pick up the pieces after a flood, major earthquake or like disaster; however, many types of disasters are not covered under normal insurance policies. Thus, in order to survive, business owners must prepare for emergencies and take steps to prevent, or minimize, the effect of disasters.

II. Solution

RecoverIt is a mobile application designed to improve the recovery efforts of small businesses post-disaster and to aid in strategically evolving their business via the use of mobile technology.

It is a point of sale system that keeps track of in-house inventory as well other vital information and stores it on a cloud. The application also serves as an avenue for all types of information about disaster preparedness and awareness. In the event of a disaster employers can make use of the application's different functionalities in order to reach both their customers and employees.

Our solution allows businesses to engage with their customers without the high cost and risk of developing and maintaining a custom application. In its place, businesses can focus their energies on their recovery efforts and **RecoverIt** provides a cost effective and efficient solution.

Requirement

- A working network connection
- Any compatible hardware
- Works with IOS, Android and Windows

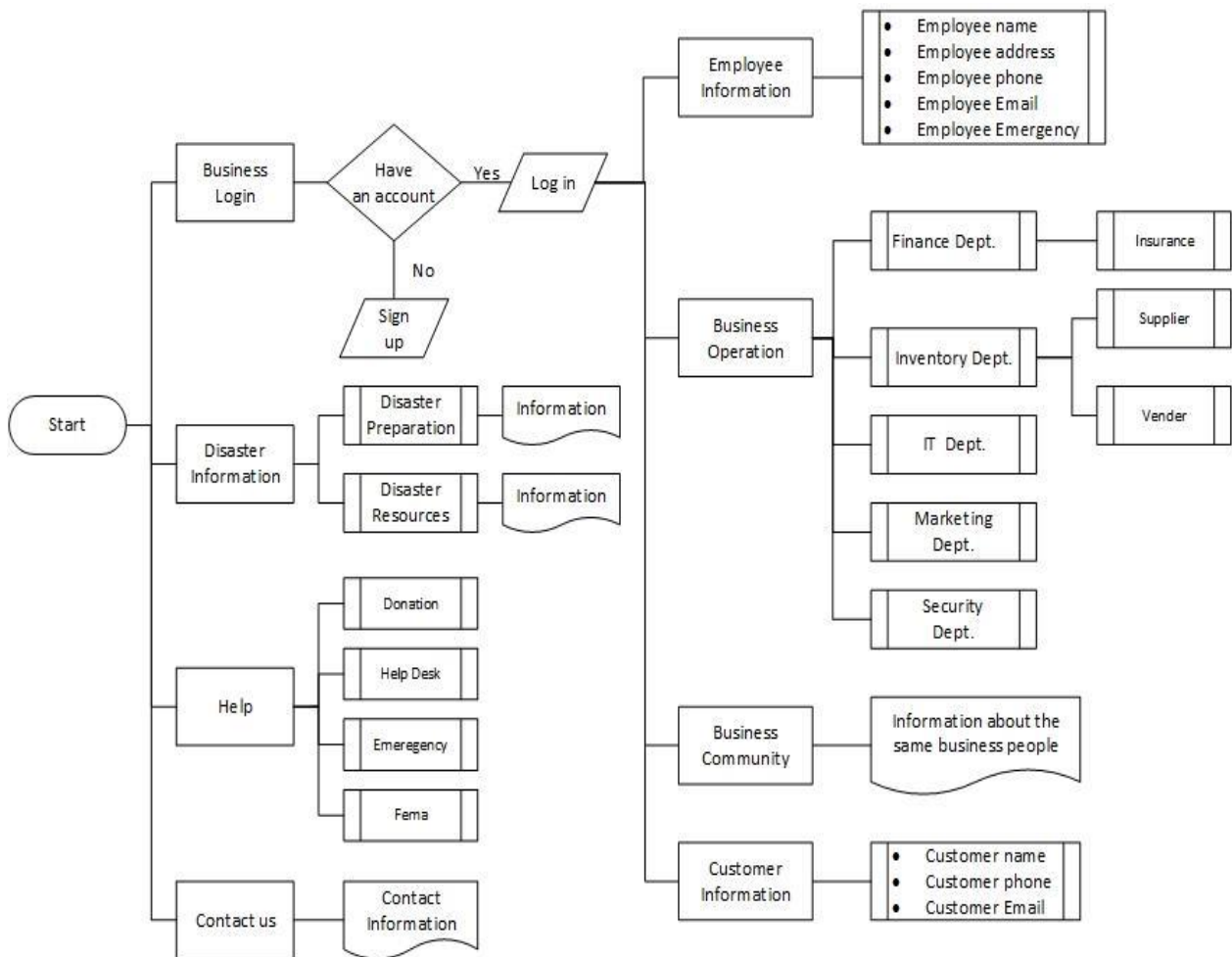
Technical Information

- Programming languages – PHP, HTML, jQuery mobile
- Data base – MySQL
- Tools – Android studio, Dreamweaver
- Server – Amazon, Bitnami

III. Product A.

Flowchart

This section describes the working principle of the RecoverIt mobile application.



B. Interfaces

In this section, we present the major interfaces of the **RecoverIt** mobile application

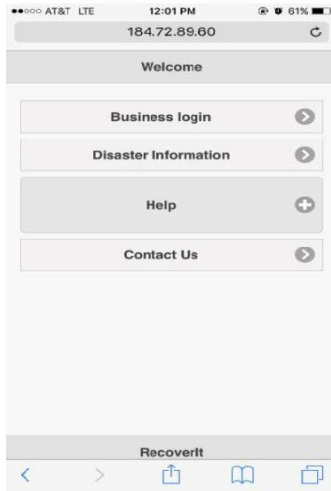


Figure 1: Welcome page

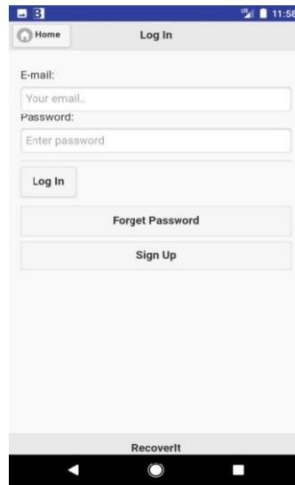


Figure 2: Log in page

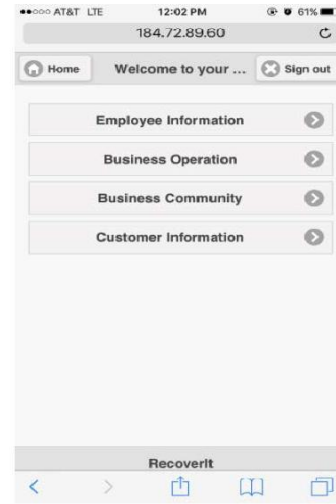


Figure 3: Business Login

Figure 1: depicts the welcome page of the **RecoverIt** mobile app. In figure 2, we present the business login page and in figure 3, we present the four main sections of business login page. They are

- Add employee's information; name, email, phone, emergency contact and address information to keep track to apply during any type of disaster.
- Business operation has five main operation (Refer to figure 5)
- Add various business community information that offer similar services
- Add customer name, email and phone information

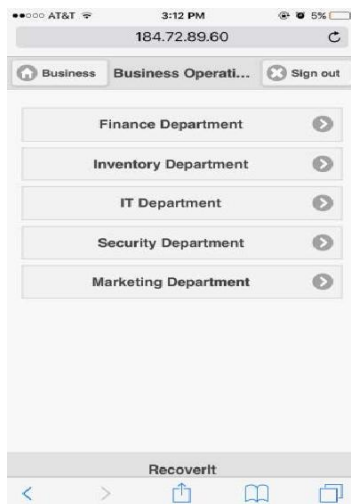


Figure 4: Business Operation Options

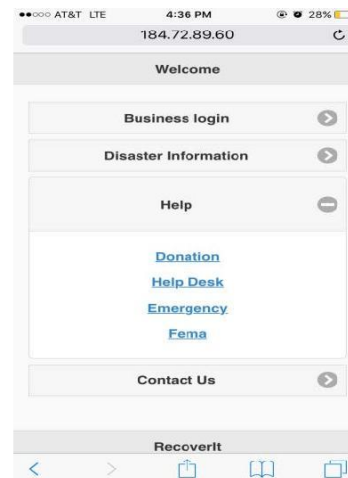


Figure 5: Help options

In figure 4, we present the five main tabs under the business operation page which provides further functionality to the employer and figure 5 depicts the expansion of the help tab which provides the resources to employer to get the information.

IV. Key features

- Dynamically update inventory information in real time and can also identify secondary and tertiary suppliers in other areas.
- Keep track of employees and customers and can issuing updates/communication over the air (OTA) - applicable to any type of disaster
- Highly scalable – since data is stored on a cloud the database can grow exponentially while minimizing costs.
- Requires minimal maintenance

V. Implementation

Our implementation plan for **RecoverIt** is both cost effective and efficient and will be carried out in two parts. First creating awareness of the product through advertising, and then offering general preparedness info on the basic version (which supports ads). Users will need to pay a membership fee for access to advanced features. Our qualified team has expertise in computer science, which will ensure successful product development.

With **RecoverIt's** user-friendly platform, businesses can be reassured that they are better prepared to mitigate the effects that a natural disaster has on a business. In addition to its simplicity, the application is highly scalable and robust enough to meet the needs of a growing\

Advertising will be done mainly through social media and directed emails targeted specifically at small businesses; especially those who are looking to save money on necessary expense. This is especially useful for companies that are looking for a more strategic way to improve recovery efforts following a natural disaster.

We truly believe this will prove to be a very worthwhile and profitable investment in the future of small businesses.

VI. Future Work

Due to the limited time frame available, there are a number of additional features that we would like to highlight as some possible future work such as improve the user interface and introduce user referral programs.