DR.MOBI. “A MEDICAL SUGGESTOR IN YOUR HAND”

Kajal Jain¹, Manini Pitale², Amit Vishwakarma³, Amit Zambad⁴

¹, ², ³, ⁴Student, Information Technology, R.G.C.E.R., Nagpur, Maharashtra, India
kajal.kucheriya@gmail.com, manini_pitale@ymail.com, amit.vishwakarma28@gmail.com, zambad.amit@gmail.com

Abstract

Today we have too many drugs updating now-a-days which may cause too many rollback failures If we ignore this problem; resources will need to increase to handle the cascading problems, and it may create critical condition for patient which may lead to big loss. Thus, we will use our revised methodology in evaluating the last release to help us improve our processes of updating drugs and disease information as per the time. And also with respect to all updating make people aware of current scenario of medical drugs available in the market.

There are so many drugs which are decline by government but still people are not aware of this and in some medical stores those medicines are yet been selling which make even cause situation worst. So to avoid such situation this is our initial protest to make everyone literate and conscious about all medical issues.

Keywords: Introduction, Literature Survey, Design, Methodology, Conclusion, Acknowledgement, References.

1. INTRODUCTION

Introduction of new software technologies also increased a great demand for the new and helpful application. In this application the input is taken from an android based phone. After installing this application in phone, the user can use it at any place as it does not need any network and after installation it does not required any internet connection.

The first screen will be the Welcome screen and will done the loading process. After the successful loading, the next that is second screen will ask for the input as the age of patient or victim as well as gender of patient. Further, in third screen this application will require input as problem or injury which the patient is facing or suffering from. This also will require symptoms that is any other problem that patient having along with problem.

For more convenience we added one more function which will take precaution from allergies of drugs. In few cases it happens that some people are having medical drug allergy from which they may get infected. Thus in third screen, with the problems and symptoms this application also require input as name of drug which is allergenic to patient.

Finally as our project aim’s, from all the collected inputs the project turns to calculation process that is nothing but the display of the medicine name along with drug contents according to problems and symptoms. And especially the drugs which are decline by government we didn’t suggest those kind of medicine. Still people are not aware of this medicines which are declined and in some medical stores those medicines are yet been selling which make even cause situation worst, so this application is just helping hand to make people aware about this scenario.

2. LITERATURE SURVEY

As new software technologies increased a great demand for the efficient software increased as well. After the analysis and observation, we came to know that in medical emergency for victims who need help or first aid or the basic treatment and medical information with proper drug intake to get cure from respective problem. Thus we conclude to make such helpful application in advance and fast forwarding technology “Android”.

2.1 Android

An open source Linux based operating system, Android was purchased by Google in 2005[16]. Android was founded with the Open Handset Alliance, and finally released for mobile devices such as Smartphone and sold it’s first easy for developers to program the device in languages such as C, C++, and Java. Google also provides a freely available software development kit (SDK) to facilitate application creation. Android powered devices have grown to be a common sight internationally today, leading the global Smartphone marketplace share for mobile operating systems as of early 2013 at approximately 70% [19]. Android has seen numerous updates spanning from version 1 through 4.2, x providing new features, performance boost, design changes, as well security patches.

There's no other software quite like Android. Google engineered Android, and Google’s own apps run best on it. And with millions of apps, games, songs, and videos on
Google Play. Android is great for fun, and for getting things done.

Android devices come in all kinds of sizes, with all sorts of features, and at all sorts of prices. Each version of Android is named after a dessert, and the most recent version of Android is Jelly Bean. With Android, you’re in control of your mobile experience.

With the enormous popularity and growth of the Android platform has seen since its inception, it not surprising that it’s become a more lucrative target for malware designers.

The Android platform is designed to allow developers to use core device functionality such as the text messages and the calling features. The Android platform debuted on only 1 phone on one carrier and now is offered on hundreds of phone across every major carrier. In recent years the number of mobile malware on the Android platform has begun alarming security experts and customers alike. During the 3rd quarter of 2012 a security group F-Secure detected over 51,000 malware instances an increase by 10 folds from the previous 2nd quarter where only approximately 5,000 instances. Among them only 146 were from the Google Play store.

The growth and adoption rate for Android has seen a positive increase since its debut and with 2009-quarter estimates from a research company analysis showing 2.8% market share to a dominating 70% in the first quarter in 2013. Google reported in 2011, that there were 550,000 activations daily and growing by approximately 4.4% per week [23]. It was these kinds of number that attracted such a large malware developing community for PCs. Android today can be seen used in international communities such as South America and China even though China has had limited access to Google services including the Google Play store.

The evolution of the Android platform has seen several version changes from 1.x when first revealed in 2007 and now its latest iterations as of early 2013 codename Jelly Bean version 4.x.x. Each version has added new features and boasted overall performance as well as closing security holes and resolving vulnerabilities. Unfortunately, a slow adaption to the latest versions has meant that many of these vulnerabilities have remained throughout the updates. A sample was taken using data from Google’s Play store to get a representative measure on the distribution of different currently being used.

<table>
<thead>
<tr>
<th>Version</th>
<th>Codename</th>
<th>API</th>
<th>Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2</td>
<td>Froyo</td>
<td>8</td>
<td>1.6%</td>
</tr>
<tr>
<td>2.3.7</td>
<td>Gingerbread</td>
<td>10</td>
<td>24.1%</td>
</tr>
<tr>
<td>3.2</td>
<td>Honeycomb</td>
<td>13</td>
<td>0.1%</td>
</tr>
<tr>
<td>4.0.3</td>
<td>Ice Cream</td>
<td>15</td>
<td>18.6%</td>
</tr>
<tr>
<td>4.0.4</td>
<td>Sandwich</td>
<td>15</td>
<td>18.6%</td>
</tr>
<tr>
<td>4.1.x</td>
<td>Jelly Bean</td>
<td>16</td>
<td>37.4%</td>
</tr>
<tr>
<td>4.2.x</td>
<td></td>
<td>17</td>
<td>12.9%</td>
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<tr>
<td>4.3</td>
<td></td>
<td>18</td>
<td>4.2%</td>
</tr>
<tr>
<td>4.4</td>
<td>KitKat</td>
<td>19</td>
<td>1.1%</td>
</tr>
</tbody>
</table>

Data collected during ending of December 2013. Versions with less than 0.1% distribution are not shown.

- Take Google with you
- Your stuff, always available, no wires needed
- Play everywhere you go
- Powerful, simple, and beautiful
- Multi-tasking
- Voice typing and actions
- Photos and videos
- Beyond Smart

2.2 JAVA

An edition of the Java platform is the name for a bundle of related programs from Sun that allow for developing and running programs written in the Java programming language. The platform is not specific to any one processor or operating system, but rather an execution engine (called a virtual machine) and a compiler with a set of libraries that are implemented for various hardware and operating systems so that Java programs can run identically on all of them.

The Java platform consists of several programs, each of which provides a portion of its overall capabilities. For example, the Java compiler, which converts Java source code into Java bytecode, is provided as part of the Java Development Kit (JDK). The Java Runtime Environment (JRE), complementing the JVM with a just-in-time (JIT) compiler, converts intermediate bytecode into native machine code on the fly. An extensive set of libraries are also part of the Java platform.
The essential components in the platform are the Java language compiler, the libraries, and the runtime environment in which Java intermediate bytecode "executes" according to the rules laid out in the virtual machine specification.

Features:
- Object-Oriented
- Simple
- Distributed
- Interpreted
- Robust
- Secure
- Architecture-Neutral
- Portable
- High-Performance
- Multithreaded
- Dynamic

2.3 SQLite
SQLite is a software library that implements a self-contained, serverless zero configuration, transactional SQL database engine. SQLite is the most widely deployed SQL database engine in the world. The source code for SQLite is in the public domain.

Features:
- Transactions are atomic, consistent, isolated, and durable (ACID) even after system crashes and power failures.
- Zero-configuration - no setup or administration needed.
- A complete database is stored in a single cross-platform disk file.
- Supports terabyte-sized databases and gigabyte-sized strings and blobs.
- Faster than popular client/server database engines for most common operations.
- Simple, easy to use API.
- Written in ANSI-C. TCL bindings included. Bindings for dozens of other languages available separately.
- Well-commented source code with 100% branch test coverage.
- Available as a single ANSI-C source-code file that you can easily drop into another project.
- Sources are in the public domain. Use for any purpose.
- Comes with a standalone command-line interface (CLI) client that can be used to administer SQLite databases.

3. DESIGN
Data flow diagrams are one of the three essential perspectives of the structured-systems, analysis and design method. A data flow diagram contains processes that transform data, data flow that moves data, actor objects that produces and consume data and data store objects that store data passively. Data flow diagrams can be used in both Analysis and Design phase of the SDLC. Data flow is shown by arrow, which shows output of one process and goes to input to another project.

There are different notations to draw data flow diagrams defining different visual representations for processes, data stores, data flow, and external entities.

4. METHODOLOGY
Our project follows an overall methodology to make conclusions in pre-treatment or first aid to victim. Our research methodology requires gathering relevant data from the specified doctors and druggist as well as chemists in order to analyze the infection or injury and provide drug intake suggestion in proper quantity at a more complete understanding like which medicine victim can have and to avoid such drug which makes allergic reaction to victim.
Welcome screen

Age and Gender of patient taken as input

Problems and Symptoms of patient taken as input and also allergy if any

Display of the medicine name along with drug contents according to problems and symptoms

CONCLUSIONS

As we aimed for suggesting well quality medicines, this project is ready now for fulfill our requirements. This application now done to perform the given operation successfully, as it takes input from the user or patient and provides proper suggestion for drug intake. This application has been designed in well mannered flow along with nice attractive screen visualization. Now every android user can experience this successfully tested application. Thus, we used our revised methodology in evaluating the last release to help us improve our processes of updating drugs and disease information as per the time. And also with respect to all updating make people aware of current scenario of medical drugs available in the market.

FUTURE WORK

This application will be uploaded on Google play. After that, as per the reviews and feedbacks, we will plan to make it more efficient and better for the user. The upgraded version will be having some educational features as well as smart effects with better user interface.

ACKNOWLEDGEMENTS

Many people in, Rajiv Gandhi College of Engineering and Research (RGCER) College have supported us from the beginning of our B.E project work. Without them, the project would obviously not have looked the way it does now. Person we would like to thank is our Project Guide Sonali Khobragade, Professor of Information Technology, RGCER, Nagpur. She has helped us in many ways. Her enthusiastic engagements in our project work and her never-ending stream of ideas have been absolutely essential for the results, presented here. We are very grateful that she has spent so
much time with us discussing different problems ranging from philosophical issues down to minute technical details.

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