

Chrome Extension to Retrieve Mess Menu

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Abstract: Mess Menu extension is aimed to retrieve the Mess Menu on the PC. Teacher's in some colleges or students who are busy in their work can know the mess menu in just one click. The Android application is aimed to add lunch and dinner menu in database. The domain chosen is Google Chrome Browser as it is one of the most popular Web Browsers. Also, it is very easy to develop Google extension as most of the instructions, software and packages for developing an extension are readily available on internet.

I. INTRODUCTION

Extensions are small software programs that customize the browsing experience. They enable users to tailor Chrome functionality and behaviour to individual needs or preferences. They are built on web technologies such as HTML, JavaScript, and CSS.

An extension must fulfil a single purpose that is narrowly defined and easy to understand. A single extension can include multiple components and a range of functionality, as long as everything contributes towards a common purpose.

An Android app is a software application running on the Android platform. Because the Android platform is built for mobile devices, a typical Android app is designed for a smartphone or a tablet PC running on the Android OS.

Android has a dictionary meaning of being a human that resembles automation. The true character of its name is it's the Google created software stack for creating comprehensive Mobile Applications and Software to realize the full potential of one's Mobile handset and its possibilities.

A file with the CRX file extension is a Chrome Extension file used to extend the functionality of the Google Chrome web browser through little programs that add additional features to the default browsing experience.

Most CRX files are downloaded through the Chrome Web Store, but since you can make your own Chrome extensions and install them offline, others may originate elsewhere or be loaded locally.

Android Package (APK) is the package file format used by the Android operating system for distribution and installation of mobile apps and middleware.

APK files are analogous to other software packages such as APPX in Microsoft Windows or a Debian package in Debian-based operating system. To make an APK file, a program for Android is first compiled, and then all of its part is packaged into one container file. An APK file contains all of a program's code (such as .dex files), resources, assets, certificates, and manifest file. As is the case with many file formats, APK files can have any name needed, provided that the file name ends in the file extension ".apk"

II. PROPOSED SYSTEM

2.1 Proposed System Introduction:

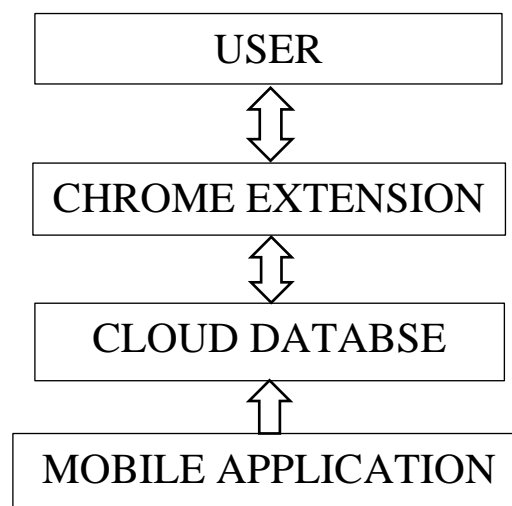
The system which we are providing doesn't exist. Always if any faculty or student

2.1.1 Modules:

Time Limit Module - This module enables the user to get the mess menu in stipulated amount of time.

Topic Module– This module fetches the information given by the chef of the mess.

2.1.2 System Architecture:



2.1.3 Algorithm

For Chrome Extension

1. Start
2. Open Google Chrome Browser
3. Open the Extension in browser
4. You can see the Mess Menu.

For android application

1. Start
2. Enter the lunch menu
3. Enter the Dinner Menu
4. Press Submit Button

2.1.4 Implementation

Chrome Extension is made from HTML, CSS, JAVASCRIPT, JSON.

To make a chrome extension main file is manifest.json file in which you are going to describe your extension like permissions, action, icon, version etc.

Ex.

1. {
2. "manifest_version": 2,
3. "name": "Charusat Mess Menu",
4. "description": "Feeling Hungry Charusatians?.. Now Mess menu is available in just one click",
5. "version": "1.0.0.0",
6. "author": "Jay Khatri",
7. .
8. .
9. .

Likewise, we have to include browser_action, icons, permissions, content_security_policy, etc.

Next, we have to design popup.html file it will be used as popup in our extension.

Then database is connected using javascript. Scanning of database for Mess Menu is done by javascript.

The Android application is made on Android studio and Designed in simple manner. In the application there are two text boxes to input one for lunch and another is for dinner. Chef will just update the menu and click the submit button the data will be stored in cloud database. Now Extensions javascript will connect with Database and it will display the menu updated by chef.

III. FEATURES

- The Extension has simple and easy GUI for non-technical users.
- Get the today's mess menu in just one click.
- The mobile application has simple Layout that the chef just has to write what is the menu of lunch and dinner then submit it.

Advantages of the proposed System:

- The extension can be installed on a PC or Laptop with Google Chrome Browser and used to get the mess menu.
- The Plugin will reduce the time and efforts needed to know the food menu.

- The Plugin has a very a user-friendly interface that makes it possible to be used by inexperienced users as well.

IV. FUTURE ENHANCEMENT

- The Extension can also be extended to other web browsers such as Mozilla Firefox and Internet Explorer.
- The extension can be extended to retrieve boy's hostels menu resided outside the campus.

V. CONCLUSION

Our proposed solution is in use, in CHARUSAT University. Before this system teachers and students were having the menu at only mess. If the teachers and students have not visited the mess then they don't know the mess menu. After this chrome extensions students and teachers can now easily know the mess menu in just one click.

VI. REFERENCES

https://support.google.com/chrome_webstore/answer/1053346?hl=en&ref_topic=6238977
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<https://developer.android.com/>