

Food Shop

a simulation of snapp food

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Abstract

This project is focused on making a practical simulation over widespread application of "SnappFood" with having more concentration over making a secured portable database and enhanced query system. We further discuss how our project and the system that the application is built upon is different than other projects and what makes this project unique compared to other fields of work since there are many other websites and applications that do the same thing.

1 Introduction

Now that the world is becoming not only mechanized but also more and more reliant on computers and internet, having an application that would replace the old phone delivery is an option that can never be ignored. The applications that would do the phone purchase and give information for delivery are very handy and compared to their forefathers, phone delivery, they are way more reliable and faster. These applications are capable of not only ordering food or any other merchandises but also it does memorize your past purchases and information for further eases by keeping memory of all you have entered and track of all purchases you made using that website.

On this paper first we will discuss the foundations that our database is built upon and the advantages that the database has. Then we will discuss about our application and how it operates on database that we created. We then further discuss the unique features that the application has for finalizing, we compare our application with other related works.

2 Database

As for any other application that needs a solid reliable database to always keep track of all stored data and transactions that are made in that application, we also implemented a database that could be accessed in any condition and is always operational. But the database doesn't only operate as a

reliable storage for our data and manage them it also provides many features that we used and we also implemented many other features as well that we will discuss each new feature in the sub sections of this chapter.

2.1 Portable Database

A unique feature that this project offers is that the database is portable and fully migratable on any platform. This feature gives us capability of updating and operating our database in any scenario. This feature works in the way that the database would generate its own core generator by itself so that another database could be generated by that without any problem.

2.2 Cookies

We have a single database that operates as a source and a server that connects client to database as it gives them service using database. Problem that we were facing was the old common problem of "Multiple clients but single user" which means that a single user might use many client applications to use the system we created, for solving this problem we introduced cookies. Cookies are stored in database which designate to every user and keep track of not only what they did but also their on going transactions.

2.3 Multiple User Synchronization

The system that we implemented will be used by many users, so another thing that we need to concern about is that all users are seeing the same thing and all of them are up to date with the same database, a feature that many applications ignore. For solving this problem we implement multiple database flush query that would sync updates with the server in order to always remain in the most up to date state.

3 Server

Every Database needs a server to give out services that database offers to multiple clients, we implemented our server with python-jango that eases down client usage that we will discuss later. Our server does the role of taking requests from users and answering them, while checking data that the database has to offer, we connected the database to our server using python and enhanced query system that we will also discuss later as well. Then after managing the requests that the clients have and answered them, we replied back to them using jango and in the client field we used bootstrap

3.1 Enhanced Query

Instead of putting all the weight on server by giving raw data to server to handle, we simplified the server process weight by making queries specific. that server doesn't have to manage the datas that

are given to server for granted.

3.2 HTML Generation

A very unique feature that the server offers to clients and also helps the programmer to remain at ease is HTML generation to simplify weight that is put upon HTML clients and also ease down development time.

4 Client

The number of clients is unlimited and any type of clients can use the server using the unique feature of **Bootstrap** and Cookies that were discussed earlier which allows any sort of browser whether mobile or computer to use server just by clicking features of website.

5 Conclusion

Now that all parts of project are discussed, we should mention the place that the project is holding compared to other related works. The thing that the database and server are always up to date and keep clients up to date as well gives us feature that no fail transactions would occur. Whereas in other sources of databases that we see like facebook and instagramm, they do not offer such features. But this feature also puts way more weight on server, since server also manages datas that are given to clients and also takes charge of handling client types and cookies. The server has to be operational in very specific way but the client can be eased down into any type of client that is capable of running a simple browser.