

Final Year Project

At Arid University Rawalpindi || 2019 – 2020

**Project Title:** Smart Retail System Using Beacons

This smart retail system is a beacon IoT Bluetooth location-based solution to give customers valuable information about sales, coupon and other promos that they may find in their area, and track customer movement in a store so the retailers can retarget their customers in future. As soon as customer comes near shop/store and our app is loaded in their mobile phones, they will get the list of latest offers currently running in business and these offers change dynamically based on the movement of customers as they walk through different racks/section of store. This will attract more customer to visit shop/store to see the offers.

**Tools & Technologies**

Tools & Technologies used in the development of projects are

* **Kotlin**

Kotlin is used for the development of android application. Kotlin is the chosen programming language for android because at the moment this is officially supported by google for android development.

* **Json**

JSON is the chosen format to exchange messages between the Server and the Client (Mobile app).

* **Web Services**

To allow our android app to communicate with the server we have created some WCF Rest services in C# language and used volley library in android to call those services.

* **C#**

C# is used for the backend development of our web application that is designed for admin.

* **Bootstrap**

Bootstrap v4 is used for the front-end development of web application.

* **Sql**

Sql is used for the CRUD operation on system database. For this project, a simple and efﬁcient database was required. We found that SQL ﬁts our needs, for its simplicity and high performance.

**PROFESSIONAL EXPERIENCE**

I am a graduate of computer science with hands on experience in web development, web services development (C#) and android application development. I have done my graduation from Arid University in 2020 in the filed of Computer Science. I have good knowledge of server side & database languages such as WCF services (C#), JavaScript, React.js, bootstrap, SQL & SQLite. I have excellent communication skills in English and I am always keen to learn new technologies.

**OBJECTIVE**

**PROFESSIONAL PROFILE**

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| To be a part of an organization where I can fully utilize my knowledge and skills to make a significant  contribution to the success of the employer and, at the same time, my individual growth. |

Muneebkhann0@gmail.com

Github.com/Muneeb926595

House No 622/4 Street 3, Jannah Lane Range road.

* Android Development
* Web Design & Development
* Kotlin
* React.Js
* Web Services
* Firebase
* Bootstrap
* HTML/CSS
* SQL Database
* Object Oriented Programming
* Data Structures
* C/C++

**SKILLS**

linkedin.com/in/muneeb-ur-rehman-212619148/

FRESH GRADUATED

Muneeb Ur Rehman

BSCS From

PMAS ARID Agriculture University Rawalpindi

2016-2020

ICS (Computer Science) From

Army Public School & College Rawalpindi

2014-2016

0317-1511383

**CONTACT**

**EDUCATION**