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# Efficient UI Conversion to Access by Both PC and Mobile

S. Venkatalakshmi<sup>1</sup>, S. Vignesh Roshan<sup>2</sup>, N. K. Arvind Kumar<sup>3</sup>, Mahendran Dayalan<sup>4</sup>

<sup>1</sup>Associate professor, B.E., Computer Science Department, Panimalar Institute of Technology, Chennai.

<sup>2, 3, 4</sup>Students of B.E., Computer Science Department, Panimalar Institute of Technology, Chennai.

**Abstract:** The project titled 'CORDROID'S' is an enterprise application that is designed for an organization that uses the same interface in their webapp and mobile application. The primary target of the task is to make extraordinary UI in different gadgets and to associate it to the equivalent backend process.. For the conversion of the interface in different platform we use CORDOVA software which enables us to convert system to mobile platform interfaces easily. This software converts only interface designed in angular. Conventional user interface design introduces multiple complexities for the development perspective. This is typically caused by the data repetitions and for the most part by blending different worries that outcome in tangling the UI code. It will provide a standard in which interface can be edited for different developers. The backend provides a legitimate structure to accessing with various platforms easily instead of coding backend separately for each. Spring Framework is a Java arrange that gives far reaching foundation backing to creating Java applications. Spring handles the establishment so you can focus on your application. Spring enables you to collect applications from "plain old Java objects" (POJOs) and to apply undertaking organizations non-rudely to POJOs. This capacity applies to the Java SE programming appear and to full and deficient Java EE. Rest is an Object-social mapping (ORM)tool. Article social mapping or ORM is a programming strategy for mapping the items to the social model where elements/classes are mapped to tables, occurrences are mapped to lines and qualities of examples are mapped to segments of table.

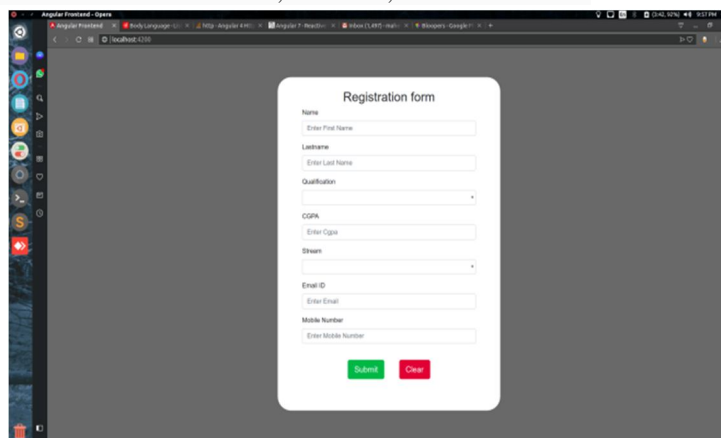
**Keywords:** Angular, Cordova, Spring, Hibernate, MySQL.

## I. INTRODUCTION

PC programming used to satisfy the prerequisites of a relationship instead of individual users. Enterprise writing computer programs is a vital bit of a (PC based) information system. Services given by big business programming are ordinarily business-situated tools, such as online shopping, and online installment processing, interactive item catalogue, planning, business knowledge, venture the executives ,integration, and endeavor frames automation. Enterprise Software portrays an accumulation of PC programs with basic business applications, devices for demonstrating how the whole association functions, and advancement devices for building applications one of a kind to the association.

## II. ANGULAR

Angular is a stage that makes it simple to manufacture applications with the web. Precise joins definitive layouts, reliance infusion, start to finish tooling, and incorporated accepted procedures to tackle improvement challenges. Precise engages engineers to construct applications that live on the web, versatile, or the work area.



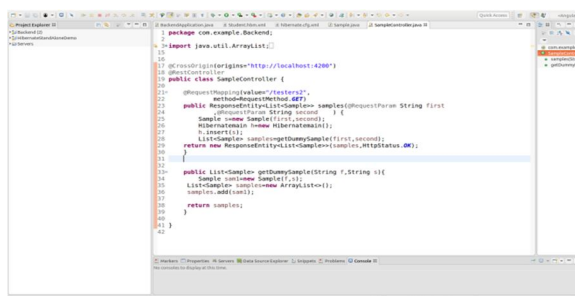
### III. CORDOVA

Apache Cordova (formerly PhoneGap) is a mobile application improvement framework originally made by Nitobi later released an open source interpretation of the item called Apache Cordova. It empowers wrapping up of CSS, HTML, and JavaScript code contingent on the stage of the gadget. It broadens the highlights of HTML and JavaScript to work with the gadget. The subsequent applications are half breed, implying that they are neither really local portable application (since all design rendering is done by means of Web sees rather than the stage's local UI system) nor absolutely Web-based (in light of the way that they are Web applications, yet are bundled as applications for conveyance and approach local gadget APIs). The product was recently called just "PhoneGap", at that point "Apache Callback". As open-source programming, Apache Cordova permits wrappers around it, for example, or Intel XDK. PhoneGap is Adobe's business rendition of Cordova alongside its related biological community. Numerous different instruments and systems are likewise based over Cordova, including Ionic, Monaca, , the Intel XDK, and the Telerik Platform. Cordova changes over the angular(web application) into the portable application where their is no convincing motivation to create separate code in the versatile application.

### IV. SPRING

The Spring Framework is an application framework and inversion of control container for the Java platform. The framework enables us to be used ny any java application over Java EE Regardless of the way that the structure does not compel any specific programming model, it has ended up being outstanding in the Java social order as an extension to, or even change it for the Enterprise JavaBeans (EJB). The Spring Framework is open source.

Spring controls the database with front end at whatever point client submits the reaction the spring brings the subtleties and stores into the database.



```
1 package com.example.Backend;
2
3 import java.util.ArrayList;
4
5 @RequestMapping("/sample")
6 @RestController
7 public class SampleController {
8
9     @RequestMapping("/sample")
10    @PostMapping
11    public ResponseEntity<List<Sample>> sample(@RequestParam String first
12    @RequestParam String second) {
13        Sample s = new Sample(first, second);
14        List<Sample> samples = new ArrayList<>();
15        samples.add(s);
16        return new ResponseEntity<>(samples, HttpStatus.OK);
17    }
18
19    @RequestMapping("/sample")
20    @GetMapping
21    public List<Sample> getAllSample(@RequestParam String f, String s) {
22        Sample s1 = new Sample(f, s);
23        List<Sample> samples = new ArrayList<>();
24        samples.add(s1);
25        return samples;
26    }
27 }
```

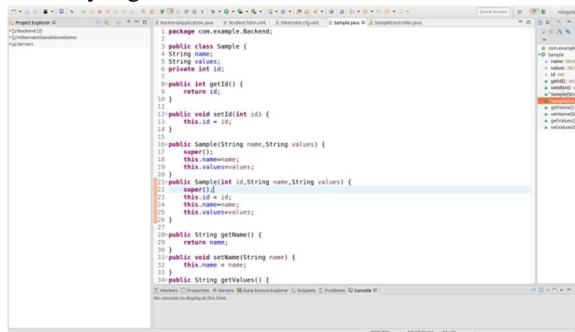
### V. HIBERNATE

Hibernate ORM (Hibernate in short) is an object-relational mapping tool for the Java programming language. It provides a framework for mapping an object-oriented domain model to a relational database. Hibernate handles object-relational impedance mismatch problems by replacing direct, persistent database gets to with abnormal state object taking care of capacities.

Hibernate is free software that is distributed under the GNU Lesser General Public License 2.1.

Rest's fundamental component is mapping from Java classes to database tables, and mapping from Java information types to SQL data types. Rest additionally gives information question and recovery offices. It produces SQL calls and calms the engineer from the manual taking care of and object change of the outcome set.

Hibernate has a seperate pojo class which helps to maintain the traffic in the server. It passes the message to the angular if the user leaves some fields empty and if the user already registered in the database.



```
1 package com.example.Backend;
2
3 public class Sample {
4     String name;
5     String values;
6     private int id;
7
8     public int getId() {
9         return id;
10    }
11
12    public void setId(int id) {
13        this.id = id;
14    }
15
16    public Sample(String name, String values) {
17        super();
18        this.name = name;
19        this.values = values;
20    }
21
22    public Sample(int id, String name, String values) {
23        super(id);
24        this.name = name;
25        this.values = values;
26    }
27
28    public String getName() {
29        return name;
30    }
31
32    public void setName(String name) {
33        this.name = name;
34    }
35
36    public String getValues() {
37        return values;
38    }
39
40    public void setValues(String values) {
41        this.values = values;
42    }
43 }
```

## VI. MY SQL

MySQL is composed in C and C++. MySQL tackles many platforms, including AIX, BSDi, FreeBSD, HPUX, eComStation, i5/OS, IRIX, Linux, macOS, MicrosoftWindows, NetBSDNovellNetWare, OpenBSD, OpenSolaris, OS/2 Warp, QNX, OracleSolaris, Symbian, SunOS, SCO Open Server, SCO UnixWare, Sanos and Tru64.

The MySQL server programming itself and the customer libraries use dual-licensing distribution.

Backing can be acquired from the authority manual. Free support moreover is accessible in various IRC channels and gatherings.

Prophet offers paid help by means of its MySQL Enterprise items. They vary in the extent of administrations and in cost. Furthermore, various outsider associations exist to offer help and administrations, including MariaDB and Percona.

MySQL has gotten positive audits, and analysts saw it "performs amazingly well in the normal case" and that the "designer interfaces are there, and the documentation (also criticism in reality by means of Web locales and so forth) is, very good". It has likewise been tried to be a "quick, steady and genuine multi-client, multi-strung sql database server".

MySQL stores all the user details from the web application as well as from the mobile application using the IP address in the server.

```
mahe@mahe-Lenovo-B40-70:~$ mysql
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use store;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> desc storedata2;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int(10) | NO | PRI | NULL | auto_increment |
| FirstName | varchar(20) | YES | | NULL | |
| LastName | varchar(20) | YES | | NULL | |
| Qualification | varchar(5) | YES | | NULL | |
| Cgpa  | varchar(5) | YES | | NULL | |
| Stream | varchar(50) | YES | | NULL | |
| EmailId | varchar(30) | YES | | NULL | |
| Mobilenumber | varchar(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql>
```

## VII. CONCLUSION

Previously people created registration form separately for the web application and the mobile application. So implementing Angular in the front end and controlling the back end database with spring is quite easier than accessing the front end directly with the database. While this angular front end is converted into mobile application using cordova software and the important advantage is there is no need to develop separate code for the mobile application person. This mobile application will access the same server as a web application.

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