

# **Project Documentation**

## **Assignment**

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## Introduction:

This documentation on the website development and application. The website is built using PHP/MySQL for the backend and HTML/CSS/JS for the frontend. The application is developed using Flutter framework with Riverpod state management. Both applications retrieve data from a common backend and display it in a list format.

## 1. Website development:

### 1.1 Technologies Used:

- **PHP:** language used for backend development.
- **MySQL:** Relational database management system for storing data.
- **HTML:** Markup language for structuring the web page.
- **CSS:** Style Sheets for styling the web page.
- **JavaScript (JS):** Programming language used for to add functionality to web pages.

### 1.2 Functionality:

- The website allows users to create and display a list of data.
- Data fields include name, email, and phone number.
- Users can enter the data through a form, which is then stored in the MySQL database.
- The stored data is retrieved from the database and displayed on the webpage.

### 1.3 Implementation:

#### 1. Frontend Development:

- Use HTML to structure the webpage and create the form for data entry.
- Use CSS to style the webpage.
- Use JavaScript for Data validation.

#### 2. Backend Development:

- Use PHP connects to the MySQL database server at localhost with the provided username and password.

```
$conn=mysqli_connect($serverName,$userName,$password,$dbName);
```

- Create MySQL Database. I'll use "saff\_db" as the database name.
- Design database user\_info table to store the data (name, email, phone number).

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	user_name	varchar(40)	utf8mb4_general_ci		No	None		Change  Drop  More
<input type="checkbox"/>	2	user_email	varchar(40)	utf8mb4_general_ci		No	None		Change  Drop  More
<input type="checkbox"/>	3	user_phone	int(10)		No	None			Change  Drop  More
<input type="checkbox"/>	4	id	int(11)		No	None		AUTO_INCREMENT	Change  Drop  More

				user_name	user_email	user_phone	id
<input type="checkbox"/>	Edit	Copy	Delete	omar	omar.s@gmail.com	50000000	1
<input type="checkbox"/>	Edit	Copy	Delete	reem	reem.12@gmail.com	511111111	2
<input type="checkbox"/>	Edit	Copy	Delete	Noura	Noura.0@gmail.com	533333333	3
<input type="checkbox"/>	Edit	Copy	Delete	Mohammed	Mohammed.0@gmail.com	544444444	4
<input type="checkbox"/>	Edit	Copy	Delete	Abrrar Alotaibi	alotaibi.s.abrar@gmail.com	542833313	375
<input type="checkbox"/>	Edit	Copy	Delete	Lama	Lama@gmail.com	555555555	380

*user\_info data*

- Implement PHP scripts to data insertion into the database and retrieval from it.

## 1.4 User Interface:

Welcome

Enter Your Name

Enter Your Email

Enter Your phone number

Send

Details

ID	NAME	EMAIL	PHONE
1	omar	omar.s@gmail.com	50000000
2	reem	reem.12@gmail.com	511111111
3	Noura	Noura.0@gmail.com	533333333
4	Mohammed	Mohammed.0@gmail.com	544444444
375	Abrrar Alotaibi	alotaibi.s.abrar@gmail.com	542833313
380	Lama	Lama@gmail.com	555555555

## 2. Application:

### 2.1 Technologies Used:

- **Flutter:** framework for mobile app development.
- **Dart:** Programming language used for developing Flutter apps.
- **Riverpod:** State management library for managing app state and data.

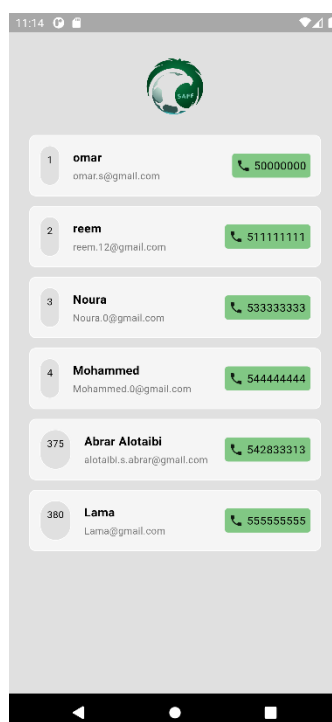
### 2.2 Functionality:

- The Application fetches the same data from the PHP backend using JSON APIs.
- The retrieved data is then displayed in a list.

### 2.3 Implementation:

- Use Flutter framework to develop the mobile app.
- Use Dart programming language to write.
- Install and configure Riverpod state management library for managing app state.
- Use HTTP package to make API requests to the PHP backend.
- JSON response and convert it into List for display in the app.
- Design the app's user interface (UI) using Flutter widgets and components.
- Display the fetched data.

### 2.4 User Interface:



## **GitHub repositories:**

Link : <https://github.com/orgs/assignment-SAFF/repositories>

## **Conclusion:**

This project documentation provided an overview of assignment for a Website and Application. The Website was built using PHP/MySQL for the backend and HTML/CSS/JS for the frontend. The Application was developed using Flutter framework with Riverpod state management.