# User Management System Setup Documentation

**Developer**: Kawish Fazal

## **Introduction**

This document outlines the setup instructions, design decisions, and testing guidelines for the User Management System.

## **Technologies Used**

* **Yii2 Framework**
* **MySQL**
* **Chart.js**
* **Bootstrap 5**
* **Font Awesome**

## **Setup Instructions:**

1. Just download the folder into the file (as needed)

2. Install Dependencies: composer install

3. Configure Database:   
 Edit config/db.php:

return [

'class' => 'yii\db\Connection',

'dsn' => 'mysql:host=localhost;dbname=<database-name>',

'username' => '<username>',

'password' => '<password>',

'charset' => 'utf8',

];

4. Run Migrations: php yii migrate

5. Insert Initial Admin Record

*INSERT INTO `user` (`username`, `email`, `password`, `auth\_key`, `created\_at`, `updated\_at`, `role`)*

*VALUES ('admin', 'admin@example.com', 'hashed-password', 'random-auth-key', UNIX\_TIMESTAMP(), UNIX\_TIMESTAMP(), 'admin');*

*Replace hashed-password with the actual hashed password*.

6. Ready to go: *php yii serve*

## Challenges

* Date Formatting: Adjusted SQL queries for correct date handling.
* Testing: Ensured thorough testing of login, roles, and CRUD operations.

## Design Decisions

* MVC Architecture
* RBAC: Implemented Role-Based Access Control.
* Responsive UI: Used Bootstrap 5 for responsive design.
* Chart Visualization: Used Chart.js for user registration trends.