FIT PHYSICAL THERAPY

User Information

PROJECT DESCRIPTION

This application has been custom designed for Fit Physical Therapy. It simplifies and automates the task of scheduling appointments, as well as provides the ability to easily manage employee information, certifications, and work schedules. Available appointments can be seen by simply choosing a therapy type and date. Appointments can be booked or cancelled with the click of a button, and you never have to worry about double-booking. Therapists can view their own schedules and daily appointments. Administrators can easily add or update therapist work hours, employee information, and certifications. In addition, this application provides the ability to assign unique usernames, passwords, and user roles to each employee.

HOW TO USE THIS APPLICATION

Simply log in with your assigned username and password at the URL below. The first time you log in with your new credentials, please navigate to User Profile to change your default password.

- URL: http://localhost:8080/FitPhysical_WebApp_Servlet/

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Developer Information

DOWNLOAD AND INSTALLATION

The source code for this application can be found on GitHub at the URL below. The project can be downloaded from the Master Branch and imported into Eclipse or another IDE. Once the program has been imported, it can be run through Eclipse using Tomcat server. Alternatively, you may download the .war file from the GitHub repository to run directly through Tomcat. You will also need to have MySQL installed. You can use the scripts attached to this document to initialize your database. Update the DB_Connector.java file with your username and password to connect the project to your database.

- GitHub URL: https://github.com/professor-brown/2022_Spring_GoldTeam

PROJECT TOOLS AND TECHNOLOGIES

This application was built using the following tools and technologies:

- Eclipse
- Apache Tomcat
- MySQL
- JDBC
- Java (JDK 11+)
- HTML/CSS
- JavaScript
- jQuery
- jQuery UI
- JSP

DATABASE TABLES AND COLUMNS

Appointment

• appointment_id	INT	Primary Key
• Customer_customer_id	INT	Foreign Key
• Employee_employee_id	INT	Foreign Key
• Therapy_therapy_id	INT	Foreign Key
• appointment_startDateTime	DATETIME	
• appointment_endDateTime	DATETIME	
• appointment_desc	VARCHAR (255)	

Certification

• certification_id	INT	Primary Key
• Therapy_therapy_id	INT	Foreign Key
• certification_name	VARCHAR (45)	

Customer

• customer_id	INT	Primary Key
• customer_fname	VARCHAR (45)	
• customer_lname	VARCHAR (45)	
• customer_phone_num	VARCHAR (15)	
• customer_email	VARCHAR (45)	

Employee_has_certification

• Employee_employee_id	INT	Foreign Key
• Certification_certification_id	INT	Foreign Key

Employee

• employee_id	INT	Primary Key
• employee_userTyp	INT	
• employee _fname	VARCHAR(45)	
• employee _lname	VARCHAR(45)	
• employee _uname	VARCHAR(15)	
• employee _password	VARCHAR(45)	

Therapy

• therapy_id	INT	Primary Key
• therapy_name	VARCHAR(45)	
• therapy_desc	VARCHAR(255)	

Work_week

• calendar_week	INT	Primary Key
• Employee_employee_id	INT	Foreign Key
• employee_MonStartDateTime	VARCHAR (20)	
• employee_MonEndDateTime	VARCHAR (20)	
• employee_TueStartDateTime	VARCHAR (20)	
• employee_TueEndDateTime	VARCHAR (20)	
• employee_WedStartDateTime	VARCHAR (20)	
• employee_WedEndDateTime	VARCHAR (20)	
• employee_ThuStartDateTime	VARCHAR (20)	
• employee_ThuEndDateTime	VARCHAR (20)	
• employee_FriStartDateTime	VARCHAR (20)	
• employee_FriEndDateTime	VARCHAR (20)	
• employee_SatStartDateTime	VARCHAR (20)	
• employee_SatEndDateTime	VARCHAR (20)	

MAIN MODEL CLASSES

- Appointment.java
- Certification.java
- Customer.java
- Employee.java
- Therapy.java
- WorkWeek.java

FUTURE DIRECTION

Opportunities for improvement of this project exist in the following areas:

- Improved security of passwords using hashing and encryption
- Search functionality for appointments by appointment ID, therapist, customer, and date
- Access to application off-site
- Mobile friendly format