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# OCR A LEVEL COURSEWORK – WEBSITE FOR FINANCIAL ADVISOR

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# ANALYSIS

## Description

My project is a website for a financial advisor that will help them manage their timings and client bookings. The website will give a description about what services are offered by the finance advisor and it will allow the admin (the finance coach) to manage their timetable of meetings with their clients. The website will allow a user to create an account, login and request times for a meeting. Whereas the admin will be able to post free time slots for the day which will be filled up by their clients. The website will then send a reminder to the user and the admin about their scheduled appointment. Furthermore, the website will have a billing system so the clients can view different prices and it will also have a chat system between the client and the finance coach so that plans about meetings can be further discussed.

## Why is the problem solvable by a computational approach?

* The given problem is amenable to a computational approach because it requires the management of large amounts of data from different clients. This can be solved using a database which is able to store different types of data safely and this data is protected and can be fetched at any time by the permitted user. Whereas without the use of a computational method, the user would have to remember their timings for their meetings on their own or use paper to write down their timetable which has a risk of being lost or misplaced.
* Furthermore, to help the user remind themselves of the timings, a computational method can be used to send the user automatic reminders about their scheduled meetings. This will reduce the risk of missing a scheduled meeting as action from the user is not required to remind themselves.
* The use of computational methods also allows the finance coach to keep in touch with their clients with a chat system integrated into the website. This way the user doesn’t have to find the contact of their client elsewhere and can keep all their work-related communications in one place.

## Stakeholders

1. My mum – my first stake holder for this project is my mum as she works as a finance advisor and a finance coach. She has a growing number of clients and meetings getting booked. My mum will represent the admin side and the experience of a finance advisor using my website. The ways in which she will use my website include logging in and creating an account, allocating free time slots during which she can take meetings, manage her schedule and contact her clients. This is appropriate for her as this will replace a physical diary and save her from scrambling around pieces of paper while trying to keep organised with her tight schedule.
2. Alua An is one of my mum’s clients who has meetings with her and other financial coaches. She will represent the user of the website from a client’s perspective. The ways in which she will use the website includes logging in and creating an account, booking meetings with the finance coach, using the chat system to contact her finance advisor about a particular topic and organise and manage her meeting schedule. This is appropriate for her needs as she has a very busy schedule with work and other commitments and my solution will help her keep her meetings organised on top of her daily life.

## Interview with stake holder

1. Do you have any struggles with organising your meetings and schedule?

No, there are not many struggles at the moment. However the number of my clients is rising and I would like a more efficient system to help me organise my consultation as well as other study materials.

1. How often do you use a diary for planning your schedule?

Everyday, because I have different types of meetings everyday: meetings with clients and I’m also a co-trainer in business training courses. So I have to attend different types of meetings with different people, therefore a diary is essential for me.

1. How many clients do you currently have?

I currently have 6 clients but I am planning to expand in the coming months because I am finishing my training in financial service.

1. Do you ever find it hard to keep track of your schedule?

Not at the moment, but since I am expanding my services, I would like to be on top of all the things that I have to do. In doing so, I would like to avoid hiring an assistant and having an automated system that can effectively manage my busy schedule.

1. What key features do you look for in the project?

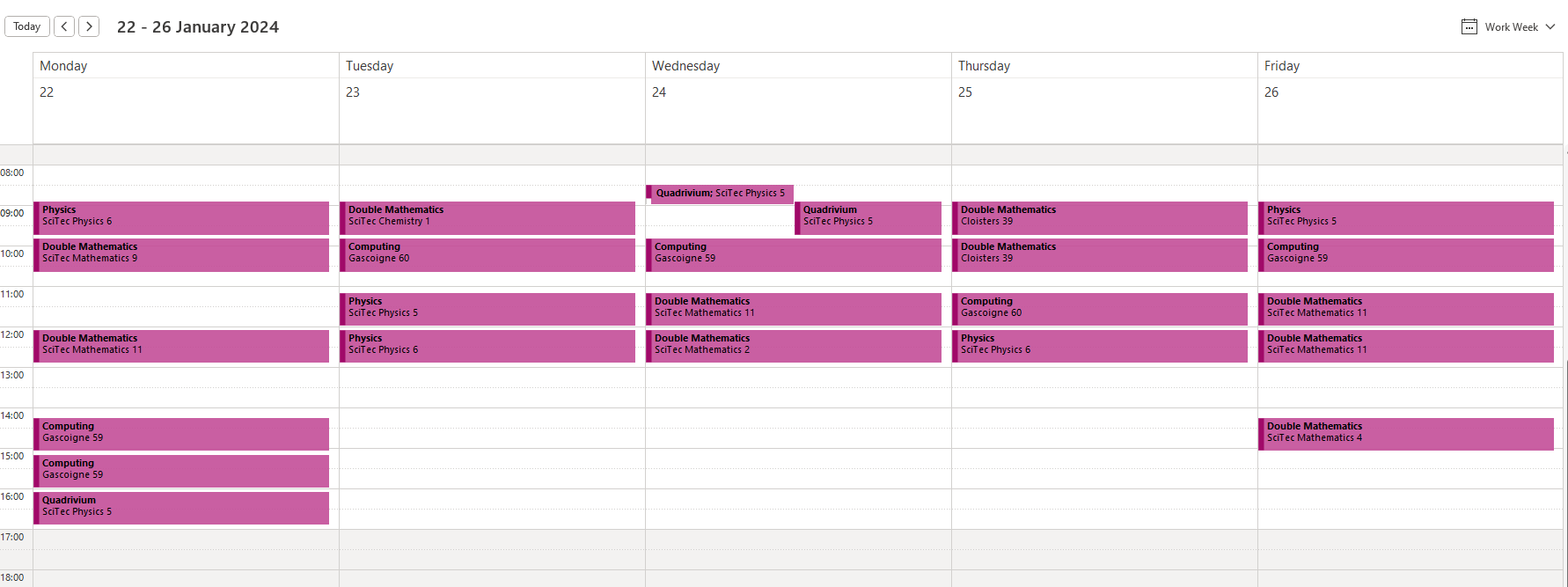
Easy to use and user friendly so that an average person can sign up for a meeting with me.

I want the website to attract clients instead of scaring them away by the complexity.

## Research of existing solutions

**Example 1- Microsoft Outlook**

**Viewing Timetable**

****

Microsoft Outlook allows a user to view their schedule with a clear visual representation. There are options to change the view from ‘Work Week’ to ‘Day’ to ‘Month’ which allows the user to view their schedules in the distant future. The format of the timetable is in the form of a diary which gives an ‘easy-to-read’ experience for the user.

The scheduled meetings are arranged in chronological order so the timing of the meeting can be easily read and in the Work Week option the days are displayed as columns so different days are clearly separated.

The arrows at the top of this online diary allow you to flick through consecutive weeks and view your schedule in a month’s or a year’s time. Meetings are furthermore clearly highlighted with a different colour, again, allowing the user to clearly visualise and not miss any scheduled meetings.

**Booking Appointments**

A screenshot of a computer

Description automatically generated

Outlook also allows their users to create their own appointments at a specific time. Users also have the option to make the meetings recurring or singular which is convenient for weekly/ daily meetings.

When adding a person to a meeting, the user can view their participants’ schedule and take into account any conflicting meetings. This is useful because the meeting can be booked at a comfortable time for both the admin and the user.

Again, the schedule is presented in chronological order so it is easy to navigate through the booking screen. And you can select the timing of the meeting via the dropdown menu and a visual calendar which displays different dates.

This clear visual representation of the calendar and different times makes Microsoft Outlook one of the best platforms for creating and scheduling meetings.

A screenshot of a calendar

Description automatically generatedA screenshot of a computer

Description automatically generated

Another useful feature of Microsoft Outlook is the ability to click a free time slot in your schedule which will automatically direct you to the page that allows you to schedule a new meeting.

A screenshot of a computer

Description automatically generatedA screenshot of a computer

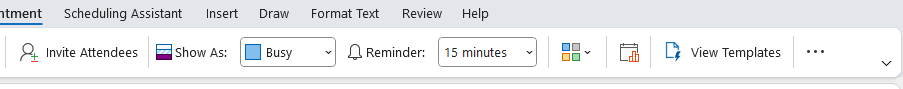
Description automatically generated

**Microsoft Outlook – Meeting Reminders**

A screenshot of a computer

Description automatically generatedMicrosoft Outlook sends automated reminders to meeting participants and the timing of the reminders can be set by the creator of the meeting.

This is a good way to ensure that meeting participants don’t forget about their scheduled meetings as the reminder window pops up at the bottom of your screen and makes a distinct sound.

****

The menu bar, as well as allowing the admin to set reminder timings, also has a scheduling poll which uses analysis of schedules to suggest a comfortable time for all members of the meeting.

The menu bar also allows the admin or user to set their availability status to let all of their teammates know how occupied they are at different times of the day.

**A screenshot of a phone

Description automatically generated**

**A screenshot of a computer

Description automatically generated**

**Example 2 – Microsoft Teams (chat system)**

A screenshot of a chat

Description automatically generatedMicrosoft Teams allows the user to be able to live chat with any member of the company/team. The chat page is accessible via the nav-bar on the right which makes it easy to access for the user of Teams. There is the option to hide each chat by clicking the drop down arrow at the top.

You can also view the status of each user to see if they are available or ‘Out of Office’ so you can contact them accordingly.

**Examples of different status’**

A person in a suit

Description automatically generated

Busy Offline Away

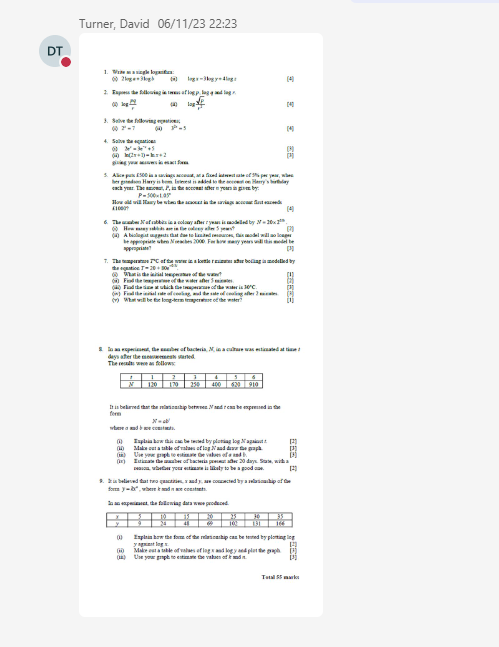
The user can manipulate their visual layout of their chats by being able to ‘Pop out chat’, ‘Mark as unread’, ‘Pin’, ‘Mute’, ‘Hide’. This gives the user an opportunity to manipulate their personal messages screen to either make it look aresthetically pleasing or have all of their work chats visible on the page.

Microsoft Teams also allows users to send messages of high importance by making them highlighted so that the receiver of the message can take particular notice of them.

A screenshot of a screenshot of a smiley face

Description automatically generatedA screenshot of a computer

Description automatically generatedThe Microsoft Teams chats are extremely versatile as users are able to send each other many things such as files, pictures, text and emoji’s.



**Microsoft Teams – Channels and Teams**

**A screenshot of a computer

Description automatically generated**

Microsoft Teams allows users to be a part of a team where admins can post relevant information to their class and this material can be accessed by all members of the class. Messages such as reminders, assignments and files can be sent to the whole class. Members can reply to the messages and interact with each post for example liking or reacting to the message.

Members of each team can start their own conversations in each team so separate conversations can be made for each topic of discussion. Messages can be marked as ‘Important’ if they are of high importance and members of each team can be mentioned in the messages so if someone hasn’t done their assignment, the admin or anyone else can follow up on that.

A screenshot of a computer

Description automatically generated

Microsoft Teams has a separate section for files where all relevant files for the gives group/ class can be stored. The file system operates in the same way as a normal file explorer where files can be organised in different folders. File types that can be stored in Microsoft Teams include Microsoft Word, Power Point presentations, Excel spreadsheets and PDF files and many more.

A screenshot of a person

Description automatically generated

A screenshot of a computer

Description automatically generated

Here, a user can find all the files that have been posted to the general channel and they can see what date they were posted and by whom. This is very convenient for users to navigate through any prior files that have been posted if they need to catch up on any work they haven’t done or a presentation they might have missed.

**Example 3 – Google Calendar**

**Scheduling Tasks**

**A screenshot of a calendar

Description automatically generated**

The Google Calendar allows the user to schedule tasks for themselves at any date or time with the user having the option to give a description of their task and set the task for the whole day instead of a specific time.

**Scheduling Events (7.99$ a month)**

A screenshot of a phone

Description automatically generatedA screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generatedThe ‘Scheduling Events’ option in the google Calendar allows the user to schedule a meeting/ event with other people. By clicking the find a time button, the program suggests a free time slot to the user in which they can schedule their meeting. The user can also set a location for the meeting if they want to do it in real life to let the members know the meeting venue. Furthermore the user has the ability to choose the time period to set the reminder for the meeting for e.g. 30 minutes or 15 minutes.   
**Scheduling Appointments – Setting up meetings**

A screenshot of a calendar

Description automatically generatedIn order to create an appointment schedule Google Calendar has a drop down menu in which you can find the Appointment schedule option. From there, you are redirected to create your own booking page where you are able to see your timetable and create booking slots accordingly. This is a simple and aesthetically pleasing feature which makes the option to create meetings and schedule appointments very easy and simple for the user.

A screenshot of a calendar

Description automatically generated

Once you are on this page, you are given the option to set up time slots during which you are available throughout the week. In the example it can be seen that the user is only available from 0900 to 1700 on Monday, Tuesday and Wednesday. After setting up the times during which the admin is available, they can then customise the length of their consulting sessions with pre-set options ranging from 15 minutes to 2 hours, however there is also the option to customise the duration of the meetings. This makes the program adaptable to different types of meetings, for example if it is a lesson, the length can be set to 1 or 2 hours whereas if it is a catch up business call the duration can be set to 15 or 30 minutes.

A screenshot of a calendar

Description automatically generated

A screenshot of a appointment schedule

Description automatically generated

A white background with black text

Description automatically generatedIn case the admin has had a change of plans or their schedule has changed, they have the option to edit their availability slots during the day. In the example below, the admin has realised that they wont be able to meet on the 20th of April so they changed their availability status to ‘Unavailable’. This is a useful feature because it allows the admin to adapt for their flexible time schedule and edit their ‘online diary’ whenever they need to.

Google calendar also allows you to set up the minimum time that the user must book the appointment for before it starts. It also lets you set up the maximum time period for which you can pre-book your meetings with the consultant. This is convenient for the admin because if they don’t know their schedule well enough in advance and if they aren’t sure if they are available in the future, they can’t get pre-booked too far ahead of time.

A screenshot of a phone

Description automatically generated

A screenshot of a calendar

Description automatically generatedThe admin can add a buffer time between each meeting and can also set a maximum amount of meetings that they can do per day. This gives the admin complete control over their diary schedule so that if the admin requires a break or time between each meeting to prepare their material for their next meeting, they have the ability to do that.

A screenshot of a chat

Description automatically generatedThe admin can also set the location of the meeting and link in a Google Meet link so that the participants are directed straight to the meeting. This provides more information about the logistics of the meeting that is being scheduled and makes it very practical for finding the physical or online location of the appointment.

**Sharing the appointment with others – Google Calendar**

A screenshot of a phone

Description automatically generatedFirst, in order to gather some extra information about the recipient of the meeting the admin can create a form for the participants of the meeting to fill in. These include first name, surname and the email address as well as any other relevant information such as their phone number which could be useful for the admin. This allows the admin to know a little bit about their student/ the participant prior to their meeting which will help the flow of the lesson.

A screenshot of a calendar

Description automatically generatedYet again, just like in scheduling events, the admin can set reminders for each meeting with different time periods before each meeting. These reminders would be sent on email to the recipient of the meeting with a specified period of time before the meeting. This is efficient because it prevents the participants from forgetting about the scheduled meeting.

The link to the booking page can be shared via email or other methods and once it is accessed, the user is directed to the following page, where they choose one of the available times that was set up by the admin.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generatedOnce the user selects one of the times for the meeting, they are directed to the form that was set up earlier to fill in their information. Once they have filled in their details their appointment has been scheduled. This is an effective way for users to book meetings due to the easy to read visual layout of all the available time slots and the accessibility they have by the admin sharing the booking page link with them.

## 

## Essential features of my project

1. My website will allow the admin to allocate free time slots during each day. For example, if the times during which the admin is free are from 9am to 5pm they can allocate free time slots anywhere between these times so that the users can book these free slots.
2. The admin and user will be able to view their schedule and change the view of their schedule between day, week, and month. Their schedule will be laid out.
3. The admin will be able to cancel scheduled meetings. For example, if the admin has a scheduled meeting at a certain time and their plan changed so that they can no longer attend the meeting, they will be able to cancel this meeting.
4. The website will be personalised for my mum and will have the description of her services and other relevant information about meetings and pricing.
5. There will be a chat system between the client and my mum so that any relevant information and lesson material can be sent between them.
6. The client will be able to book meetings during the allocated free slots that the admin (my mum) has assigned.
7. There will be an automated reminder sent via email to the participant and the admin at a set time before the meeting.

## 

## Potential limitations of the proposed idea

1. The first limitation for my proposed idea is that my website won’t be collecting any credit or debit card information from its users. This is because this feature could have risks associated with it such as malfunctioning could cause unwanted transfer of money which would be a big problem.
2. Another limitation is that my website will not offer a calling or video calling service for the finance coach to have the meetings with their clients. Instead it is suggested that the users of my website will use an external service such as Skype or WhatsApp for their meetings. This is because such platforms will provide better and more stable calling quality than one that I could make.
3. My website’s calendar will be a stand alone system therefore a person’s meeting calendar cannot be copied into other platforms like Outlook. This is because it will be too complex to enable such a function to work.

## Requirements for solution

**Developer requirements (my requirements)**

Software: The software requirements for the developer include having access to an IDE such as VS code. This will be used to write and debug the code. Being able to run and test the website with a suitable browser such as Google Chrome so that I can perform development and final testing on my code. Having a suitable method to host the website on a server so that at the end of the development, I can host the website locally or publicly so that people can view it and use. This will involve using XAMPP for hosting the website and creating the databases on a local device and once the development of the website is complete a suitable website hosting platform which will be determined later. The programming languages that I will use will be HTML and CSS for designing the webpage, Bootstrap for adding custom design features to the website, MySQL to manage and create databases and tables, and PHP to manipulate databases.

Hardware: All I will need for the development of the website is a computer that can run VS Code and Google Chrome. A mouse and keyboard may be needed (optional).

**Requirements for the finance advisor**

Software: My mum will require access to a web browser and access to the internet so that she can get onto the website to view her online schedule and manage her classes. An email address so that she can receive meeting reminders which will prevent her from missing a meeting.

Hardware: A computer or a phone so that she can get onto a web browser and access the website.

**Requirements for all website users**

Software: All users will need to have access to a web-browser to be able to access the website. An email address so that they can receive meeting reminders which will prevent them from missing a meeting.

Hardware: A computer or a phone so that they can get onto a web browser and access the website.

## Success Criteria

1. Upon completion, users will be able to create an account and be able to login to the website.
2. The users will be able to book meetings with the finance advisor in one of the free slots that was allocated by them.
3. The users will receive emails with reminders about their meetings at a certain period of time before the meeting.
4. The users will be able to use a chat system to communicate with the financial advisor.
5. The users will be able to see their calendar within a month, a week and a day.
6. The admin will be able to create free time slots during the day during which the users can book their meetings.
7. The admin will have the option to set a minimum time between the bookings so that they can have a break and prepare material for their next meeting.
8. The admin will be able to view their calendar within a month, a week and a day.

# Development

## ER Diagram

A diagram of a chat

Description automatically generated

TblFreeTimes

## Tables

**TblUsers**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Validation** | **Typical Data** | **Justification** |
| Surname | VARCHAR(20) | Presence Check (required) | Smith | For User identification |
| Forename | VARCHAR(20) | Presence Check (required) | Michael | For User identification |
| UserID | INT(3)  Auto- Generated | Required | 007 | Auto-incremented automatically. Used as primary key for users |
| Password | VARCHAR(50) | Hidden | Password123 | Hidden so that people can't look at your password |
| Email Address | VARCHAR(50) | Required | craigndave@gmail.com | Email is required so that reminders can be sent to you. |
| Phone Number | INT(20) | Optional | 07774172654 | Phone Number is optional so that users have the option to receive potential calls if they like. |
| Comments | VARCHAR(100) | Optional | Hello! My name is Michael Smith I would like to use your services | Comments are optional so users can give more information about themselves. |
| Coach | TINYINT(1) | REQUIRED | 1 | Required to distinguish between coach and user |

This table will store data about each user of the website who wants to schedule meetings with my mum. Data will be inputted into this table during the sign-up processes.

**TblMeetings**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Name | Data Type | Validation | Typical Data | Justification |
| UserID | INT(3)  Auto-Generated | Presence Check  (required) | 023 | The User ID is the primary key in the linking table between users and admins |
| Meeting Time Start | Date and Time | Presence Check (required) | 1900  11.03.24 | In order to store a meeting, storing a start time is required. |
| Agreed\_by\_coach | Boolean | Default value- False, not applicable as the coach will do it in her own time | True (approved) or False (denied) | The meeting will be either approved by the coach or denied. |
| Meeting\_desc | VARCHAR(2000) | Presence Check  (required) | I would like to discuss... | The meeting description is required for the finance coach to know the topics to discuss |
| Notes\_of\_coach | VARCHAR(10000) | Optional | 1.notes  2.more notes… | The coach will be able to write down the notes associated with the meeting here. |

This table will store data about each individual meeting request made by each user. The Boolean field ‘Agreed\_by\_coach’ will have two possible values: True or False in order to store whether the request has been approved by the coach and the meeting can be added into the appropriate people’s schedules.

**TblChats**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Validation** | **Typical Data** | **Justification** |
| UserID | INT(3) | Required  (presence check) | 078 | In order to know which user the coach is chatting with. |
| CoachID | INT(3) | Required  (presence check) | 001 | So that the coach’s details can be accessed by user. |
| Date/time | DATE/TIME | Automatic | 11.03.24 15.28 | The date and time of the message will be picked up automatically by the computer |
| Message | VARCHAR(65535) | Required  (presence check) | Hello! | In order for the message to be sent it must be typed by the sender. |
| Message\_senderID | INT(3) | Presence check  (required) | 083 | So that the sender of the message can be known to the recipient. |

TblChats will be a table used to store the chats between a user and my mum so that the chat function of the website will be able to display the message and the date and time at which it was sent.

**TblFreetimes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Validation** | **Typical Data** | **Justification** |
| Freetime | DATE/TIME | Optional | 19.03.24 | This field allows the admin to input date and time of when they are free |

TblFreeTimes is a table which will store the times during which my mum is available. The 3 different time slots allow her to allocate free slots during the day in case she is busy for some part of the day e.g. the afternoon. Then she will be able to enter her availability into two time slots: the morning being TimeSlot1 and the evening being the TimeSlot2. If she is available for the whole day or only 1 to 2 hours per day she will only have to use one time slot field.

## Top Down Design Diagram

Website for a finance coach

Login and Signup

Chat System

Sending automated emails at a desired time before the meeting.

Sending Reminders

Log into your account as a user or an admin (coach)

Write a comment about their preferred topic of discussion.

Create an account as a user.

View the description of my mum’s services.

Sign Up and Log in.

View timetable of meetings with the finance coach. Day/week/month.

Have a description of their services on the main page.

Agree/Disagree to meetings with users.

View Timetable of Meetings with the users. Day/Week/Month

Request meeting with the finance coach

Users can send messages to the finance coach.

Finance Coach can send messages to users individually.

User

Coach

I have split up the problem into 5 main categories:

1. Creating a chat system between each of the users and the coach so that a private chat could be kept.
2. Having a coach which will be my mum who will be able to view the timetable of her approved meetings, have a main page with the description of her services and mainly, she will be able to accept or deny meetings requested by the users.
3. Having the users that can create an account and log in. The users will be able to request a meeting with the finance coach and write a comment about their preferred topic of discussion. The users will also be able to view their timetable with different time periods ahead. The users will also be able to view the main page with the description of my mum’s services.
4. Logging In and Signing Up- Users will be able to create an account and log into their accounts. My mum will have a preset account of an admin who will operate as the coach.
5. Sending Automated reminder emails 15 minutes before the meeting to the coach and the users.

## Test Data

Log In page

In the log in page the user will have to input their log in details in order to access the system. Both admins and users of the systems will be able to log in hence I will need two sets of test data for this page. Therefore the data that I will use for this page will be as follows:

Admin (Finance Advisor):

Surname: Lyazzat

Forename: Zhunisbekova

Password: Password321!

User:

Surname: Smith

Forename: Michael

Password: Password123

## Book Meetings

In the book meetings page the user will be able to request a time for the meeting as well as a duration and provide a description for what their desired topic of conversation is. The coach will be able to accept or decline the meeting request and during the meeting write notes about the meeting. However, I will consider overlapping meeting requests and the scenario of the admin declining a meeting.

User:

Meeting Start Time: 9:00 am

Duration: 15 minutes

Description: I would like to have a meeting with you.

Admin (Finance Advisor):

Verify: Agree

Meeting Notes: blah blah blah

Another user:

Meeting Start Time: 9.00am

Duration: 30 minutes

Description: I would like to have a meeting with you

This input should not be an option on the drop-down menu of available times as this time is already booked and confirmed by the other user.

My Schedule (user and admin)

Another User:

Meeting Start Time: 10.00 am

Duration: 30 minutes

Description: I would like to have a meeting with you

Admin (Finance Advisor):

Verify: Disagree

In this page the user and the admin will be able to see their schedules.

Admin:

Meeting Start Time: 9.00 am

Duration: 15 minutes

Meeting member: Michael Smith

User:

Meeting Start Time: 9.00 am

Duration: 15 minutes

Meeting admin: Lyazzat Zhunisbekova

## Page Design

Main/Home Page (homepage.php)

Book Meeting

Home Sign up Log In

Picture of my mum

Description of my mum’s services

**Algorithms associated with Main/Home Page:**

**Clicking ‘Home’ button:**

when click (“Home”):

redirect to “home.php”

**Clicking ‘Book a meeting’ button:**

When click (“Book a meeting”):

Redirect to “booking.php”

**Clicking “sign up” button:**

When click (“sign up”):

Redirect to “signup.php”

**Clicking “log in” button:**

When click(“log in”):

Redirect to “login.php”

**Usability features of the page**

1. The scroll bar allows a user to easily scroll down the page to read all the information on the page.
2. The nav bar will be constantly visible so the user will be able to return to the home page via the home page button at any time.
3. By clicking the home page button the user can also instantly scroll to the top of the home page if they would like to return to the top.

Log In Page

Menu Bar

Home Book a Meeting Sign up Log In

Redirects back to the home page.

Background Design or Image

Back

Log In

Password

Forename

Surname

Log In

**Algorithms associated with Log in Page:**

**Inputting fields:**

Surname = str(input(“Surname”))

Forename = str(input(“Forename”))

Password = str(input(“Password”))

**Processing the inputs:**

SELECT\*FROM TblUsers WHERE Surname = Surname and Forename = Forename

If password\_verify (Password, hashed\_password):

Then location header(“user.php”)

Else:

Location header(“login.php”)

**Creating the session variables:**

$\_SESSION[‘surname’] = Surname

$\_SESSION[‘forename’] = Forename

**Usability Features of Log in Page**

1. The ‘Back’ button allows the user to be redirected back to the home page.
2. The input fields are large and dominate the majority of the screen, so they are instantly noticeable by the user.
3. The navbar is still accessible so the user can go back to the home page via it.

Sign Up Page for Users

Book Meeting

Home Sign up Log In

Create an Account







Create Account

Comment/Description

Phone Number (Optional)

Email

**Algorithms associated with the sign-up page for users**

**Inputting fields:**

Surname = str(input(“Surname”))

Forename = str(input(“Forename”))

Password = str(input(“Password”))

Email = str(input(“Email”))

Phone Number = str(input(“Phone Number”))

Comment = str(input(“Comment/Description”))

**Processing the inputs:**

Hashed\_password = password\_hash(“Password”)

INSERT INTO TblUsers (Surname, Forename, Password, email, phone\_number, comments) VALUES (Surname, Forename, Password, Email, Phone Number, Comment )

#This adds the inputted values into the table TblUsers.

**Usability Features of Sign up page**

1. The ‘Back’ button allows the user to be redirected back to the home page.
2. The input fields are large and dominate most of the screen, so they are instantly noticeable by the user.
3. The navbar is still accessible so the user can go back to the home page via it.

Book Meeting Page For User

Home Book a Meeting User



Choose a date and time:

|  |
| --- |
| 15/04/2024 0900 |
| 15/04/2024 1000 |

**Each Meeting will be one hour long.**

Meeting Description:

Type here…

Request Meeting

**Algortihms associated with Book Meetings Page**

**Taking the inputs:**

SELECT ALL\*FROM TblFreeTimes

Date\_and\_time = input\_from\_options(“SELECT A DATE AND TIME”)

Meeting\_description = str(input(“Meeting Description”))

**Processing the inputs:**

INSERT INTO TblMeetings (UserID, Meeting Start Time, Meeting\_desc) VALUES ($\_SESSION[UserID], Date\_and\_time, Meeting\_description)

DELETE\*FROM TblFreeTimes WHERE Freetime = Date\_and\_time

**Usability Features**

1. The navbar is still accessible so the user can go back to the home page via it.
2. The selection of the date and time utilizes a drop-down menu which allows the user to see the available times for their meeting.

Timetable Page of the Finance Advisor

Home Timetable Meeting Requests (8) Lyazzat Zhunisbekova

]

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|  |  | 08.00-09.00  Meeting  With… | 08.00-09.00  Meeting  With… |  | 08.00-09.00  Meeting  With… |  |
|  | Free Slot  16.00-17.00 | 09.30-10.30  Meeting with… | Free Slot  16.00-17.00 |  |  |  |
| 19.30 – 20.30  Meeting with... | Free Slot  18.00-19.00 | 19.30-20.30  Meeting  With… | Free Slot  18.00-19.00 | 21.00 - 22.00  Meeting  With… | 19.30-20.30  Meeting  With… |  |
| 20.10-21.10  Meeting with… |  |  |  | Free Slot  22.00-23.00 |  |  |

Day View Mode

Wednesday

|  |
| --- |
| 08.00 Meeting with …….  1 hour |
| 09.30 Meeting with …….  1 hour |
| 19. 30 Meeting with …….  1 hour |
|  |

**Algorithms associated with the timetable page.**

**Weekly timetable**

SELECT\*FROM TblMeetings WHERE Agreed\_by\_coach = True and UserID = $\_SESSION[‘UserID’]

SELECT From Day A to Day B:

Display the timetable between Day A and Day B

**Daily Timetable**

Now = current day

SELECT\*FROM TblMeetings WHERE Agreed\_by\_coach = True and UserID = $\_SESSION[‘UserID’] and Day = current day

Display the timetable WHERE now = current day

**Deleting from TblMeetings**

DELETE \*FROM TblMeetings WHERE Now> Date\_and\_time

**Usabiliy features**

1. The navbar is still accessible so the user can go back to the home page via it.
2. Free Slots are highlighted in green which makes the free slots easy to see for the coach and will help them to prepare for a potential meeting.
3. The time of the meetings is shown in chronological order so that users and the admin know the order of their events in the day.
4. The user and coach will be able to switch between day and week view mode which will allow them to visualise their whole week or the current day.

Meeting Requests Page of the financial advisor

Home Timetable Meeting Requests (8) Lyazzat Zhunisbekova



Verify

Yes No

Requests

Name: Michael Phone Number: +44 49 2534 2345

Surname: Smith Duration: 2 hours

Email: [michaelsmith@gmail.com](mailto:michaelsmith@gmail.com) Date and time: 19.00 04.04.23

Name: Michael Phone Number: +44 49 2534 2345

Surname: Smith Duration: 2 hours

Email: [michaelsmith@gmail.com](mailto:michaelsmith@gmail.com) Date and time: 19.00 / 07.04.23

Name: Mohammed Phone Number: +44 49 2534 2345

Surname: Hussein Duration: 2 hours

Email: [michaelsmith@gmail.com](mailto:michaelsmith@gmail.com) Date and time: 19.00 05.04.23

Name: Michael Phone Number: +44 49 2534 2345

Surname: Smith Duration: 2 hours

Email: [michaelsmith@gmail.com](mailto:michaelsmith@gmail.com) Date and time: 19.00 06.04.23

**Algorithms associated with Meeting Requests Page**

SELECT\*FROM TblMeetings WHERE Agreed\_by\_coach = null

Agreed = Boolean(input(Agreed/Disagreed))

INSERT INTO TblMeetings (Agreed\_by\_coach) VALUES (Agreed)

Num\_requests = number of meeting requests

Display(num\_requests) in nav bar

**Usability features**

1. All details about the users that are making the meeting requests are shown so the admin can see relevant information about the users prior to accepting the meeting.
2. The number of meeting requests is shown in the nav bar so the admin knows how many people would like to have a meeting.
3. The admin must simply tick a box to accept or deny the meeting request which is very easy and convenient.

Usability Features of the website

1.One feature that will be present on all the pages of my website will be the nav bar on the top which will be used to access the different pages from any current page with ease both for the user and the admin.

2. Another usability feature of my website will be the ability to view your own schedule easily being able to switch between the option of viewing it for the current week or just the day.

3.Free slots will be coloured in green and the times during which you are not available are marked by the crossed-out time slot which will make it easy to visualise the times that can be booked and those during which you are out of the office.

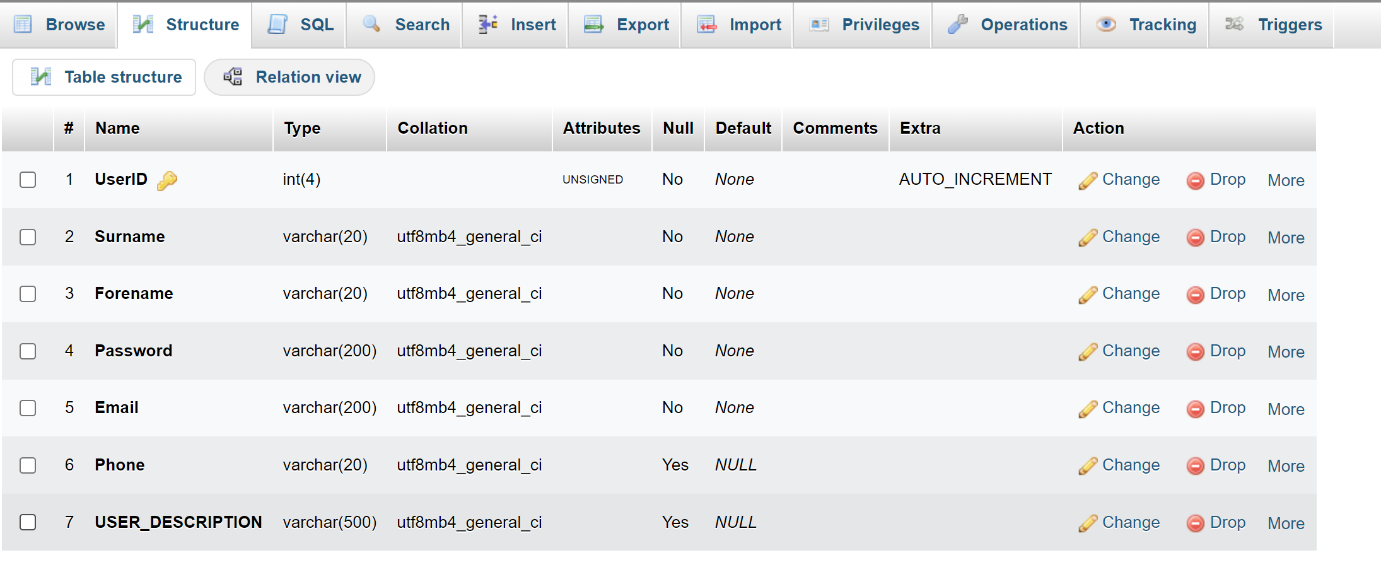
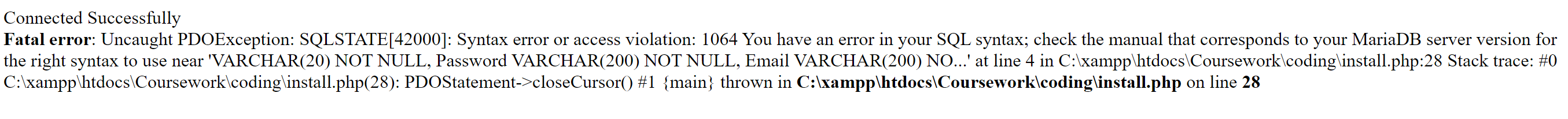
4.When booking a meeting, the user can use the dropdown option to select one of the times that is available.

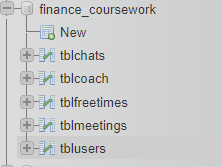
## Development

## Creating install.php

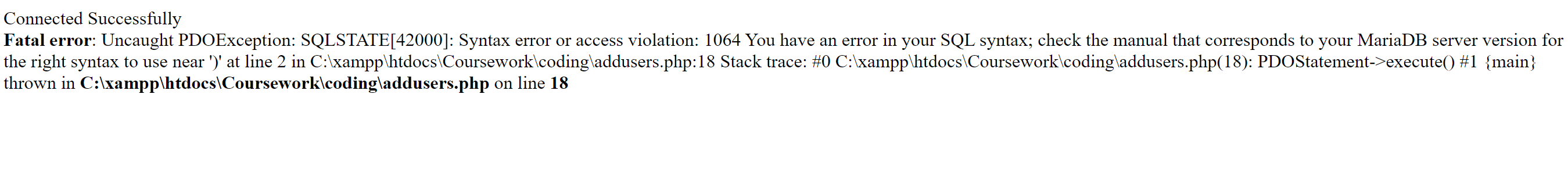
A screen shot of a computer

Description automatically generated After I ran the code shown on the picture I at first got an error message, however after correcting the syntax of the code, it worked and allowed me to create a table in my database.

I then wrote the code for the rest of my tables. However, I have encountered an error.

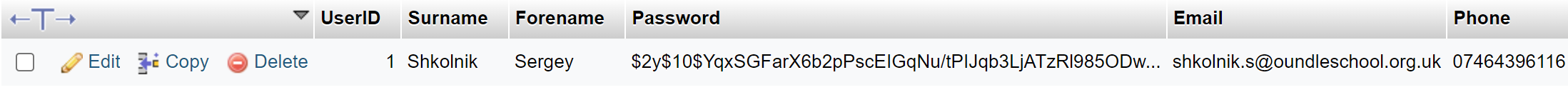
However, after fixing some syntax in my code and trying again, I managed to run the install.php page and create all the tables on the database. 

## Creating users.php and addusers.php

A computer screen shot of text

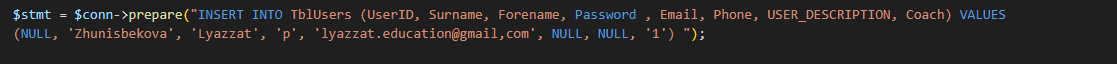
Description automatically generatedAfter running the code shown, I created a form allowing the user to input their details and pass them onto the next page called addusers.php. The addusers.php page binds the values that have been posted from the form to the fields in the database. After testing the code for the addusers.php page shown below I encountered an error.

After reviewing my code I realised that I didn’t give enough parameters to insert into the database as I skipped the user\_description. After adding that in the code was up and running and I was able to add myself into the database.

A screen shot of a computer program

Description automatically generated

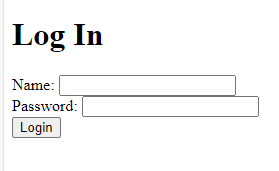
`

At this point I decided to hard code a part of the coach’s details into the system straight away so that they can log in straight away and have the option to change some of their details as they wish. I hard coded the coach’s details in the install.php page.

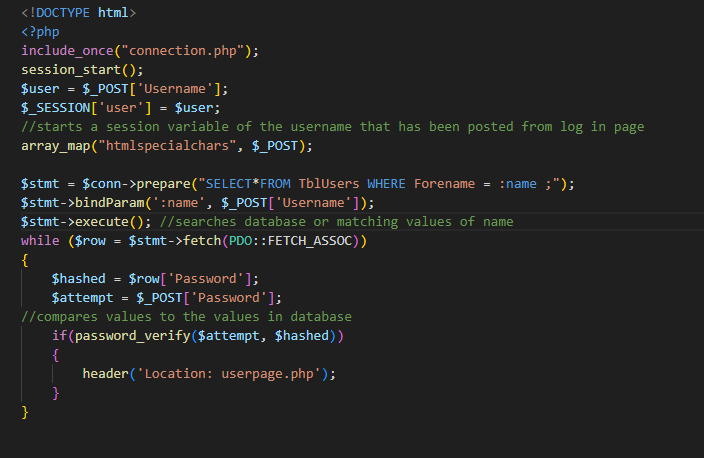
After checking the database, the coach was successfully added into the users table.

# Creating the log in page and login process

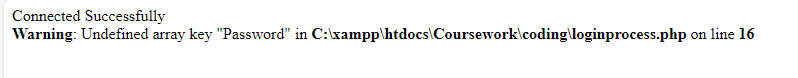


After creating this page, I needed to make a page that would process the inputted data to check it with the username and password stored in the database

The log in process page:



After trying to log in with a user I have encountered an error where the array key Password did not match the variable from the log in page.



However after reviewing my code I managed to find the error in the code and made my variable from login and loginprocess match. I could now log in with a users login details.

A close-up of a page

Description automatically generated

However I encountered a problem when trying to log in with the coach’s details as the password that I hard-coded was not hashed hence it did not match the output of the unhashing algorithm. Therefore I added the hashing password algorithm into the install.php page in order to fix the issue. After running the code, I was successfully able to log in as a coach.

A black screen with colorful text

Description automatically generated

A screenshot of a computer

Description automatically generated

## Adding some CSS

A sunset over a body of water

Description automatically generated

A screen shot of a computer program

Description automatically generated A screen shot of a computer program

Description automatically generated  
After writing some CSS for my main page, I managed to create a carousel with multiple pictures that I will edit later on as well as a navigation bar to allow the user to jump to whichever part of the website that they want.

## Creating the Freetimes.php page

The free times page will allow the coach to assign the times during which she will be free for a meeting.