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Computer Science Project

Electric and IoT escape room

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# Analysis

## The Problem

The problem is that the school of Hurstpierpoint College, would like to run an escape room for a charity.

An escape room is where a number of people get locked in a room full of puzzles and they have to solve said puzzles in order to escape the room. They win once they leave the room. The current problem my stakeholder would like me to solve is the fact that they want to add automatic puzzles that can be reset by themselves removing the need for human interaction, so it is self-sufficient.

A picture containing indoor, floor, living, room

Description automatically generatedA picture containing text, floor, indoor, furniture

Description automatically generated

This is what a normal escape room looks like, a normal room but there are hidden puzzles to solve in order to get free. There is also a time limit to add a thrill to the game.

The problem with these escape room is they take time to reset back from when groups solve the puzzles. They may also need to sanitise the puzzles reducing time for people to do the escape room.

Currently there is no way of signing up to use the escape room. This causes problems as my stakeholder would be unsure when people are meant to be participating and what the groups are.

There could be a booking system on paper, however this would be slow, and you would have to go to my stakeholder taking up both the participants and organisers time, which is very unreasonable

It would be appropriate if there was an online based system like a website where students at the school would be able to book their place by creating an account. It would be helpful to show the times that are not available and so it does not double book. It will also have to be styled to make it easy to use as well as look good. The website that will have a link to a database. The database will only store relevant data such as: name, email, password and year group.

Another problem is that it takes time to setup the gear for an escape room, as well as resetting it after a session has been done. Current escape rooms are outdated in the sense that they use contraptions made from wood and magnets which are very hard to re-assemble and have to be done manually by another person.

It would be better if some of the equipment was using technology that is able to not only be reset by itself but also be operated by itself too. So, once you had finished the escape room it would automatically reset itself ready for the next session without my stakeholder interfering. I could also introduce a text-based game where all people in the group will have to participate to solve it. The game will be created by an AI and be appropriate for the size of the group.

## Stakeholder

Mr Graham is the stakeholder. He is a Chemistry teacher who enjoys creating his own escape rooms. He has some experience using Arduinos and coding. However, he feels that by incorporating technology into his escape rooms it would not only save time booking groups in but also setting up the actual puzzles. He feels that this could be used for a charity event run by Woodard house.

The Students will use the system to book in advance, set up a group and have their own virtual alarm clock. They will be able to set up their own accounts with their emails. With this they can find their friends with accounts and create their group that they will do the escape room with. The virtual alarm clock will be used to countdown to when their session will be.

## Meeting the needs of the Stakeholder

One part of the system will be an ordinary website where students will be able to book a time slot to do the escape room. Once the students have arrived at the escape room then the group, they are in will have to solve a puzzle on the website in order to progress in the room. The system will meet their needs It would also be helpful if it had a virtual alarm clock, counting down to when the session will start. This fulfils his requirements.

## Solving the problem using Computational methods

This problem can be fixed with the use of computational method of approach. This is because the booking system could incorporate a graphical user interface. This would enable the users to see their virtual alarm clock countdown to their session. This can be done by using an algorithm that takes the time of the booking and the current time and calculates the difference between them then outputs them in a graphically pleasing way. There are currently many people who want to find something new and exciting to do which I am capitalising on as by innovating a classic game such as an escape room through using technology might entice people to use it.

A database could be used to store the account details of the user could be saved. This could include email address, password and username. This could be added into the database using php. The user could sign up using a form and that will automatically put all the necessary information into the database that can be retrieved for when they want to sign in.

In order to make it quicker, and easier for both the participant and stakeholder to use, I could make a website which can be accessed from anywhere with an internet connection. So, if someone is at home then they can book without having to wait and see my stakeholder.

## Amenability to a computational approach

### Problem decomposition

Decomposition is a key part of this problem as there are a lot of complex parts that can be broken down into smaller parts that are easier to understand. This means the coding process is easier as it is straightforward and laid out. This also means it is easier to manage.

Decomposition can be used to split my project up into modules or algorithms that can do a particular function. For example, I can split the website and the text-based game. For example, the website a module could be designing the log-in and sign-up page. Maybe even the animation that pops up from the page asking you to sign-up/log-in. I could split into different pages on the website. I would have around 4 pages. Virtual alarm clock, Log-in/sign-up, Create Team and bookings. This can be split further so the login/sign-up page can be split into the functions of logging in and signing up so I can create the php code that will edit my database before bringing it all together as one.

### How Algorithms can be used

Algorithms are being used to solve this problem to add the data to the database, to add the booking to the database and storing the groups on it too. They are also being used to calculate the value of time until the actual event of the escape room and being displayed through a virtual alarm clock.

### Need for abstraction

Abstraction is the process whereby all the essential features are shown without any including the background detail. An example of this is the London tube map. It just shows the stations and the rough direction they are in. It does not show the distance from each station to another which is seen as unnecessary in this instance.

For my project abstraction can be used when building the website. For example, when putting in all the features that are required by my stakeholder.

For my test-based game I have already abstracted it by removing the need for graphics just leaving the essential features. That being just the text and then there is no need for images meaning it can be easier to understand and mean it requires less memory to run as it does not need to load much whereas if it had images then it would have to load them in which may use a lot of memory.

### Better than paper-based systems

The reason this is better than paper-based systems is because unlike a system where you have to see my stakeholder and he writes down all the relevant information, this can get lost and easily torn. By using a website linked to a database you are unable to lose it and it won’t break. It can be accessed from anywhere whereas if you leave the piece of paper somewhere then it won’t be registered. It also shows who made the booking and is stored permanently. If it was on some paper, there might be no way to monitor who wrote it and so my stakeholder will not know who the booking is for causing for confusion.

If it is linked to a database, then it is easy to read off of the information as all the data is stored in a way that all the information is seen in chronological order and all the information you need is in a record of multiple fields. Whereas if it is sprawled on a page then you won’t be able to understand it or even know what is happening. This mean my stakeholder will spend less time deciphering what is written compared to

With the text-based game it would be very hard to use paper as you would have to write it down every time and there would be no way to check if the answer is right or not. You also could not link it to the Internet of Things. This means if the users finish the puzzle there would be no way of the Arduino knowing that it has been completed.

It is faster than emails too. My stakeholder receives many emails daily and if you email him with your group and time of your session it is not only hard to keep track of and they might not see it. This way it is all organised and in one place.

This would be better than other physical and paper-based methods as if you were doing a text-based game on paper you would end up using lots of paper as well as lots of time which is unethical due to current climate problems and deforestation and the opportunity cost of the time taken to use paper could be used to do something more productive. So, by using a computer-based method it will be quicker and due to the time limit being 1 hour all you need to do is click a button and it takes you to the next page instantly and the computer majority of the thinking for you. It also does not use damage the environment as much but still uses electricity which for the most part is made using non-renewable energy sources.

The room is also solved through the use of Arduinos so the time that it takes to reset everything by hand is reduced to a fraction of the time. On top of that due to Covid 19, it could spread the disease if someone touched the puzzle that someone else had touched so by using a computer it means that the virus is not spread as easily. As well as it being online, so people do not meet in person and spread the virus keeping everyone healthy.

## Similar Systems

A picture containing text, indoor, lit, night

Description automatically generated

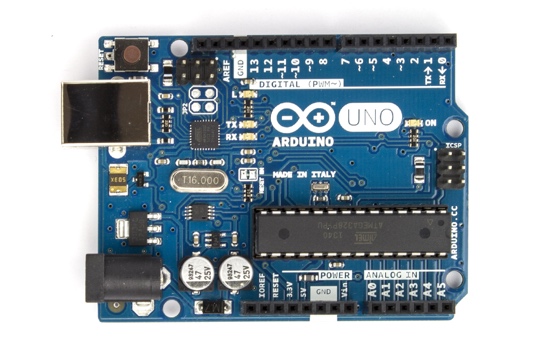
Even though escape rooms have been around for a long period of time, currently I can find none in the United Kingdom on the market that involve both technology such as smart phones and ordinary puzzles. I have found none in the UK that incorporate a text-based game with it as well. I believe I am the first to incorporate this into any escape room in the UK. I am not trying to be better than any other but pioneer for this type of niche take on something that has remained almost unchanged for years. There is an escape room company called OMESCAPE which use virtual reality completely removing the need for any physical equipment other than the headset. It means you wouldn’t have to create any puzzles that would all be done in the A screenshot of a video game

Description automatically generated with medium confidencevirtual world. You can have up to 7 players for £149 which equates to £21.30 per person. Another company called 365escape who own 365escape.com have online escape rooms. It is one player only and you have to play on their website. This removes the teamwork aspect of escape rooms which is partly what makes them good to do with friends. So, by using Arduinos and a text-based game it is new and is currently not being done by anyone else on the market. Text-based games have been around for some time, but I am unable to find one that connects users online in the way I intend to. However, during the process of making this project, there was a global pandemic which meant that people could no longer visit escape rooms. This meant that pre-established businesses within the industry had to innovate if they wanted to make money during this time. This meant that OMESCAPE previously mentioned has come out with their own online escape room with similar features to mine. It costs £110 for 2-6 players whereas mine is going to be a lot cheaper. Their online escape room has multiple “rooms” to solve whereas mine will just be one. Mine differs from theirs as mine still has a physical element through the use of an Arduino that physically moves an object in real life. This might be harder due to the pandemic however I can still show the users a feed of a camera setup looking at the Arduino open the box to help them solve the rest of the puzzles. Their puzzle is completely online due to the pandemic but mine will still have a physical room but will only be used once the pandemic has ended. My system is also better than a traditional escape room as it removes the need to reset all the puzzles as through the Arduino it will automatically do that. This means there is less time resetting the puzzles and more time of people actually being able to play the puzzles.

## Why Arduino?

Diagram

Description automatically generated![Graphical user interface, text, application

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ABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAABAAAAAAABAAAGBAV/fX7FxMLT0tDZ2tXc3djh5uDl6uTq7+vy9PH2+Pf6+Pn89/v89/v9/f39/f39/f3+/v7+/v7////////////////+/v78/Pz7+/v6+vr6+vr39/fz8/Pv7+/t7e3q6url5eXc3NzV1dXS0tLHxciBeoIJAAsNABAIAAkIAAYHAAIGAAAGAAAEAAABAQAAAgAAAwAABQQABgUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAgABBwN7gX3Ax8DL1c3S3NTV39fe6ODk6+Tp7+vy9PH49vf99/n/9vv/9fv9/f39/f39/f3+/v7+/v7////////////////+/v78/Pz7+/v6+vr6+vr39/fz8/Pv7+/t7e3q6url5eXc3NzV1dXRz9LHwsiEeIQMAA0PABALAAsJAAgIAAQGAAAGAAADAAABAQAAAwAABAAABgUABwcAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAwAABAAACQN4g325xr3K187Q3dTT4Nfd6ODi7OTp7+vy9PH69vf/9vn/9fv/9Pv9/f39/f39/f3+/v7+/v7////////////////+/v78/Pz7+/v6+vr6+vr39/fz8/Pv7+/t7e3q6url5eXc3NzV1dXP0NXDxMl8fYICAQcFBAkBAAQEAAUDAAQDAAIDAAIBAAIBAAIAAAAAAAAAAAAAAAAAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAgIAAwIAAwIAAwIAAwIAAwIAAwIAAgIAAgIAAQIAAQIAAAIAAAIAAAIAAAIAAAIAAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAIHAAILAAILAAIIAAIHAAIGAAIEAAIBAAIBAAIBAAIDAAIDAAIGAAIHAAIKAAIKAAILAAIABwAABwEACAd+f4HFv8PZztTg09ri193o4uTp5+jt7evz8/H3+PL8+fT9+PL/+PL9/f39/f39/f3+/v7+/v7////////////////+/v78/Pz7+/v6+vr6+vr39/fz8/Pv7+/t7e3q6url5eXc3NzV1dXP09bFxst8fYEBAgYFBAkBAAQCAAMDAAIBAAIBAAIBAAIBAAAAAAAAAAAAAAAAAAAAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAQIAAwIAAwIAAwIAAwIAAgIAAgIAAgIAAQIAAQIAAAIAAAIAAAIAAAIAAAIAAAIAAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIDAAIHAAIHAAIGAAIEAAIBAAIAAAIAAAIAAAIAAQIAAAIAAAIBAAIEAAIGAAIHAAIHAAIABgAABQAACAd/f4HIwsbYzdPg09ri193n4+Tp5+js7uvy9PH3+PP8+fT9+PT/9/T9/f39/f39/f3+/v7+/v7////////////////+/v78/Pz7+/v6+vr6+vr39/fz8/Pv7+/t7e3q6url5eXc3NzV1dXN09PDx8p7f4ABAgQFBggAAAIBAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQAAAQ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AAAwAAAwAAAwAAAwAAAwAABAAABAAABAAABAAABQAABQAABQAABQAABgAABgAABgAABgAABgAABgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgAAAgADAAIEAAMLAgWGe3/Jvb/Zz9Db19ba3Nne5+Lg7Ojl8e/r9/fz+Pz4+P/89v//9P/9/f39/f39/f3+/v7+/v7////////////////+/v78/Pz7+/v6+vr6+vr19fX19fXz8/Pw8PDq6urj4+Pc3NzY2Njd09LMwsGFgH0QDAsHBgIAAAAAAgAAAgAAAgAAAgAAAgIAAQIAAQQAAAQAAAQAAAQBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIBAAIAAAIAAAIAAAIAAAIAAQMAAAIAAAIAAAIAAQIAAQIAAQIAAwQIAAIHAAEGAAAGAAAGAAAGAAAGAAAHAAEHAAEIAAIIAAIGAAAGAAAGAAAGAAAHAAEGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAHAAEIAAIGAAAKAAMLAgUOAwcJAAMHAAAGAAAJAAMGAAAGAAAHAAEGAAAAAQQAAwYBAQOQi4/Iv8Ld1dXb19bd3dvg5uLh7Ojl8e/s9vfz+Pz4+P/89v/99f/9/f39/f39/f3+/v7+/v7////////////////+/v78/Pz7+/v6+vr6+vr19fX19fXz8/Pw8PDq6urj4+Pc3NzY2NjXzc7KwsJ/e3wKCAkEBgUAAwMAAwIABAQABQQABQUABQUABAcABAcAAwkAAwcAAgkDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcDAAUDAAcBAAUBAAcBAAUBAAcBAAUBAAcBAAUBAAcAAAUAAAcAAAUAAAcAAAUAAAcAAAUBAAgFAAUEAAQEAAQEAAQEAAQEAAQEAAQGAAYEAAQEAAQEAAQEAAQEAAQEAAQEAAQFAAUFAAUEAAQEAAQEAAQEAAQEAAQEAAQGAAYEAAQEAAQEAAQEAAQEAAQGAAYEAAQEAAQDAAQDAAQEAAQEAAQEAAQGAAQGAAQGAAQIAAYGAAQGAAQGAAQEAAQEAAQDAAQEAAUABggABwoABAaEiIvCwMPW0tPZ1dTa29bh5uLk6ubm8e3t9vXz+Pz4+P/69//99f/9/f39/f39/f3+/v7+/v7////////////////+/v78/Pz7+/v6+vr6+vr19fX19fXz8/Pw8PDq6urj4+Pc3NzY2NjSzdHBv8JxcnYABAcDDQ8ACwsADQsAEA8ADQsADQwADA4ACw4ADBAACxIADREADBQCBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhICBhEABBAABA8ABBAABA8ABBAABA8CBhIABxEABBAABQ8ABBAABQ8ABBAABQ8ABhICBhECBhIBBRAAAQ0AAg0ABBABAw8DBRIACQ8ACQ8ABw0ABQsABQsABQsABw0ACxEABw0ACQ8AChAACQ8ACxEABgwABgwAChAACA4ABgwABQsABAoABAoABAoABgwACA4ABw0ACA4ABgwACA4ABgwABw0ABw0ACQ8ABQsABAoABAoABg0ABAsABAsAAgoAAwsABQ0ABQ0ABAsABAsABw0ACA4ACA4ABw0AEBIAEBMABgt0goW6vsHS0NPW0tHb19Tk5eDn6ebp7+vv9fP0+Pv4+f769//89v/9/f39/f39/f3+/v7+/v7////////////////+/v78/Pz7+/v6+vr6+vr19fX19fXz8/Pw8PDq6urj4+Pc3NzY2NjQ09jCx813gIUPHiMVKi0JJykAJCQCLCsAKCYAJCQAIyQAJCgAJioAKTAAKTAAKC8AIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAIigAISoAJCgAIyoAJCgAIyoAIygAIioAIigAISoDJiwDJC0CIyoCICoFIysHIy4GIysGIi0ALCsAKisAKyoAKCkAJSQAJicAKSgCLi8AKSgAJSYAKSgAKisAKCcAISIAIyIAKSoALCsAKywALCsAJSYAJiUALC0AKyoBLS4ALCsAKisAKCcAKCkAKCcAKywAKyoCLi8ALSoAKioAJyUAKywBKyoFLjABKSkBKCsDKysEKy4AKikAJykAKikALS0AKicALS0ALzEALS8CJSl3jpO5xMjQ0dPW0tHb1tPn4+Dp6OTt7uny9PH0+Pn4+f35+P/69//9/f39/f39/f3+/v7+/v7////////////////+/v78/Pz7+/v6+vr6+vr19fX19fXz8/Pw8PDq6urj4+Pc3NzY2NjH1t27zNN5kJUxTlIsUlMjUVEWTEwUUFAmaGYdY2IWXV0VXF4bYmQgZWogZWofZGkMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMMaWENaGMJamEJamMJamEKaWMMaWENaGMNaGEOZ2MHXVgJXVsMXloPX14QYF0SYGAPXlsMWFgAXF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IwQnJCtUL3QzpDfUPARANER0SKRM5FEkVVRZpF3kYiRmdGq0bwRzVHe0fASAVIS0iRSNdJHUljSalJ8Eo3Sn1KxEsMS1NLmkviTCpMcky6TQJNSk2TTdxOJU5uTrdPAE9JT5NP3VAnUHFQu1EGUVBRm1HmUjFSfFLHUxNTX1OqU/ZUQlSPVNtVKFV1VcJWD1ZcVqlW91dEV5JX4FgvWH1Yy1kaWWlZuFoHWlZaplr1W0VblVvlXDVchlzWXSddeF3JXhpebF69Xw9fYV+zYAVgV2CqYPxhT2GiYfViSWKcYvBjQ2OXY+tkQGSUZOllPWWSZedmPWaSZuhnPWeTZ+loP2iWaOxpQ2maafFqSGqfavdrT2una/9sV2yvbQhtYG25bhJua27Ebx5veG/RcCtwhnDgcTpxlXHwcktypnMBc11zuHQUdHB0zHUodYV14XY+dpt2+HdWd7N4EXhueMx5KnmJeed6RnqlewR7Y3vCfCF8gXzhfUF9oX4BfmJ+wn8jf4R/5YBHgKiBCoFrgc2CMIKSgvSDV4O6hB2EgITjhUeFq4YOhnKG14c7h5+IBIhpiM6JM4mZif6KZIrKizCLlov8jGOMyo0xjZiN/45mjs6PNo+ekAaQbpDWkT+RqJIRknqS45NNk7aUIJSKlPSVX5XJljSWn5cKl3WX4JhMmLiZJJmQmfyaaJrVm0Kbr5wcnImc951kndKeQJ6unx2fi5/6oGmg2KFHobaiJqKWowajdqPmpFakx6U4pammGqaLpv2nbqfgqFKoxKk3qamqHKqPqwKrdavprFys0K1ErbiuLa6hrxavi7AAsHWw6rFgsdayS7LCszizrrQltJy1E7WKtgG2ebbwt2i34LhZuNG5SrnCuju6tbsuu6e8IbybvRW9j74KvoS+/796v/XAcMDswWfB48JfwtvDWMPUxFHEzsVLxcjGRsbDx0HHv8g9yLzJOsm5yjjKt8s2y7bMNcy1zTXNtc42zrbPN8+40DnQutE80b7SP9LB00TTxtRJ1MvVTtXR1lXW2Ndc1+DYZNjo2WzZ8dp22vvbgNwF3IrdEN2W3hzeot8p36/gNuC94UThzOJT4tvjY+Pr5HPk/OWE5g3mlucf56noMui86Ubp0Opb6uXrcOv77IbtEe2c7ijutO9A78zwWPDl8XLx//KM8xnzp/Q09ML1UPXe9m32+/eK+Bn4qPk4+cf6V/rn+3f8B/yY/Sn9uv5L/tz/bf//)An Arduino is a board that are able to read inputs like a light on a sensor or a button and the way that I will use which is through the use of something happening online. An Arduino is a microcontroller that is able to control devices it is connected to. This is due to the fact it has a chip that can be coded. This can be done as Arduino have an IDE that you can install on your computer and load the code onto the Arduino. The reason I am using Arduinos over any other microcontroller is because they have a lot of resources on how to use them in comparison to other companies producing them. This means it is easier to get help if I get stuck. This means that even if my stakeholder did not have any experience with computers, they could still be able to use it and understand what it is doing. It also has a great Internet of Things cloud service so when the text-based game says that it has been completed, within a few seconds the Arduino can receive this information and release the next clue for you to continue with the escape room. This will process a series of events that the Arduino will control once it receives that signal over the Internet of Things. It can control hardware like motors and lights that can be used in the escape room.

## Why use the IoT?

The Internet of Things is a system of interrelated computing devices, mechanical and digital machines that are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction. This means that there is interaction between the Arduino and the message saying you have completed the game. So, it is run without human validation it is all computer controlled. This not only makes it easier to set up but like the rest of the escape room, is controlled by what the people doing it do. So, if they solve one clue it leads them to the next clue before they find the final answer. So, it enables it to fit into the theme of the escape room. The Internet of Things can also be used in many more different ways, for example, you can connect smart WIFI lights to the Internet and you can control their colour depending on the weather in another country as it is all able to be linked through the use of the Internet. You can also hook it up to sensors, so you are able to tell not only if someone is in an area but also how many people there are on the room. This could be useful for an escape room as it could mean I can make a clue that says to put your hand inside something and if it detects something it reveals the next clue as it sends the data through the internet check it with the parameters set such as if there is something then open. The opening can be controlled by the Arduino so the data from the sensor could be sent to the Arduino using Arduino’s own Internet of Things Cloud which is open source, so it is free for everyone to use. Using this information, the Arduino can then release the next clue. This could be something ranging from a simple piece of paper to using the lights previously stated that can flash in a range of colours that lead to the next clue. Using the Internet of Things, it makes it seamless for the stakeholder as he can just let it run without him having to interfere. It means they can all communicate with each other and all my stakeholder has to do is supply the components with a power source whether it be by plugging it onto the mains and using electricity that way or by using a power bank. So, not only does it make it easier for my stakeholder but by them communicating with each other it also makes it easier for me.

## Development model

For my project I am going to use the agile development model. As my project has lots of components, I feel it would be suitable to do it one part at a time and show what I have done to my stakeholder and get feedback from him and any ideas of improvements and tweaks he might have. I will start with planning it one module at a time. Once I have planned one module, I will then work on designing on how it is going to work. For example, I can plan the login system such as what it will do. Then I will design how it will look on the website. I will then develop it to make sure it looks good and works as it is meant to. I will then test it to check if it works and providing it does work, I will then release it to my stakeholder and others in a controlled group. I will then get feedback and make adjustments to the module if necessary. The process will then repeat with a different module.

Diagram

Description automatically generated

### Limitations of this type of model

The agile development model bears a few limitations. If a client is unaware of what they want, then the project can easily fail. However, in my case my stakeholder has clearly defined what he wants my project to do. If there is no documentation throughout each cycle, then the stakeholder will not receive their desired project. Therefore, in order to avoid this happening, I will aim to take notes during feedback sessions with my stakeholder and plan what I should do next.

## General Limitations of my project

For the project I am doing I am restricted by the limits for the technology I am using. The Arduino for instance will always have to be on for it to receive commands; therefore, if there was a power outage and the Arduino stopped working them the whole escape room would come to a halt as they would not be able to find the next clue. I am also limited by the IDE that Arduino provide. As there is no graphical output there is no way to check if the contraption will work unless I physically create it. My website will also not be able to facilitate the use of payment for usage of the escape room by transferring money online as I think it would be too complicated and not needed as that can be done another way. I do not think it would be good in case the website got hacked and I would be liable, and I have no coverage for something like that. I was going to add superuser accounts however, that would mean they get to know the solutions to the puzzles, and they could cheat in the escape room which is not fair.

## Requirements

## User requirements

### Hardware requirements

|  |  |
| --- | --- |
| Hardware Requirements | Justification |
| Access to the internet | This is so the user can access the escape room and make a booking otherwise they won’t be able to use it |
| A smartphone, tablet or laptop | This enable the user to go to the website that it is being hosted on |
| An internet speed of 2 megabits per second or above | This the recommended value of bandwidth to access live websites that are updating like mine. With constant connection to the Internet of Things |
| The device must have over 500 mb of Secondary Storage space | This is roughly the amount of storage a browser needs to be stored on a device to run a website and load all the necessary components of the website, |
| Computer should have at least 128 MB of RAM | This is the minimum amount of RAM the browsers require to have 5 running tabs open. |
| A keyboard or something to that effect | This is so the user can input things into the website to interact with it. |

### Software requirements/ Success Criteria

|  |  |
| --- | --- |
| Software Requirements | Justification |
| A browser such as Chrome, Safari, Firefox, Microsoft Edge, Internet Explorer and Opera. | These are the most popular browsers worldwide making them viable options to run the website on |
| Should have an Operating System equivalent or later to: Mac OS Sierra, Windows 8 or a similar Linux based OS | All these operating systems can run a browser such as Chrome so is able to access the website |

### Input requirements

|  |  |
| --- | --- |
| Input Requirements | Justification |
| The user must be able to input their basic information such as Email and House | This is so the user can make an account that links with their email and my stakeholder can see what house they belong to. It also means there is something the data can be associated to |
| Must be able to input what time and date they want their booking | This is so the data can be correct when added to the database and that it can be displayed to them once they have confirmed |
| Must be able to input a code | This is so the user is able to join a group and display that to them and other in the group. |

## Developer requirements

### Processing requirements

|  |  |
| --- | --- |
| Processing Requirements | Justification |
| The user must be able to edit their booking time | Users may find that not all of them are free at that date so they may want to change the time of their booking to suit this |
| Search for other people on the database | This is so if they want to add anyone to the group, they can find them and invite them |
| Delete people from their group | If a random person joins a group there must be a function where the group creator can remove them otherwise, they do not know who they are playing with. |

### Output requirements

|  |  |
| --- | --- |
| Output Requirements | Justification |
| Way of viewing the booking information | This is so if the user forgets when they booked for, they can go to the page and have a look at all the details |
| Who is in the group | This is so group participants can see who they are working with |
| Look at available time and dates | This is so they don’t book a time that’s already full and book a time that suits them. |

### Storage requirements

|  |  |
| --- | --- |
| Storage Requirements | Justification |
| All accounts created must be stored on the database | The database is where all the information is stored, and this means the website knows where to find the information from |
| Any bookings made must be stored on the database | The database is where all the information is stored, and this means the website knows where to find the information from |
| All groups should be stored on the database | The database is where all the information is stored, and this means the website knows where to find the information from |
| The database should be secure and be able to withstand any attack | This is so the data can’t be accessed illegitimately, and any user has the comfort their data is safe. |

### Software and Hardware requirements for developer

|  |  |
| --- | --- |
| Software and Hardware Requirements for Developer | Justification |
| The website must be coded in HTML, CSS, JavaScript and PHP with a phpMyAdmin database | This keeps the website simple and ensures that all browsers will be able to run it. |
| The hosting website must have 1 GB of RAM | This is approximately the amount of RAM that is required for 250 users which is roughly the size of the audience. (“Hardware requirements for web database servers, 2017”) |
| The hosting website must have 128 GB free storage | This is approximately the amount of storage that is required for 250 users which is roughly the size of the audience. On top of all the other data like the bookings and the actual website (“Hardware requirements for web database servers, 2017”) |

### Other success criteria

I want to not only create a website but also create a text-based game. The game will run through the website so there is no need to build an app and it means that anyone can use it not just those using iPhones. As long as it has a browser and an Internet connection, users can sign up and use the website.

|  |  |
| --- | --- |
| Other success criteria | Justification |
| The game must have a time limit to be completed within | This is so the user has a similar experience to a real escape room and adds an element of pressure to the game |
| Handle illegitimate requests and come back with error messages | If the user tries to input in invalid data, such as a date in the past for their booking, then the website will say an error message, so the user knows what they have done wrong. |
| The Arduino receives the output from the game and releases the clue to continue with the escape room | If this doesn’t work, then the use will be unable to carry on with the escape room and making it not worthwhile to do. |
| All components of the website work properly like the login system and the countdown system | This is to ensure the user can use the website clearly and to add them to the database so my stakeholder can see them |
| Has validation techniques | This is so no illegitimate or non-Hurst users try to access the escape room by validating their email address. |

## Feedback from stakeholder

(TO DO)

# Design

## Design Overview Using Decomposition

My project is mainly focussed on building two separate components. The first being the website that is linked to a database. The database will have the users accounts, house, year group, name, email and password inside. In order to achieve the best design and functionality for my website I will have to break it up in modules that can interfere with each other but are different enough so I can work on one whilst not simultaneously having an effect on any of the other modules. For the modules I will provide wireframes, algorithms, descriptions of variables and data structures, show what validation is needed and for the databases provide entity relationship diagrams. In each module section there will also be a small success criteria section just to show what is expected to be in each module. This will be shown in both the alpha test plan and beta test plan. For the text-based game I will also be creating different modules just like the website. I will also provide wireframes, algorithms and descriptions of variables.

### Hierarchy Diagram

In order for my development can be modular I have broken it down and decomposed the problem into individual components. This means I can work through a specific module and in the end join it to the other modules to have a working project. By splitting it into modules, it also enables for continuity in the sense that there are steps for each module that carry onto the next that all join together.

Diagram

Description automatically generated

## Website

This module will incorporate all of the webpages and their functionality. This includes account creation and many other elements that will be listed later on. Here are the pages that the website will require with all the planning I have created that can be later used to design these pages.

### Homepage

The homepage will have all the links for all the other pages on the website that the user will need to access to take part in the escape room. It is essential to have this as users are then able to navigate the website easily.

A picture containing drawing, clock

Description automatically generated

#### Homepage Wireframe Design

Home Booking Countdown Signup Login

Logo

Email

Relevant information on the escape room

Password

#### Features

* Website navigation menu – This will be a group of hyperlinks at the top of the webpage each linking to an individual page
* Login Field – The login field will be a html form with the action of going to a php page that will check the entered password against the one stored in the database as well as being able to create an account
* Section for information about the escape room
* Footer containing information about the website

#### Validation

|  |  |  |
| --- | --- | --- |
| Field Name | Validation Method | Reason |
| Name | Only uses alphabetical characters | This will remove any malicious people as names do not have numbers in them. This means they won’t be able to be logged in |
| Password | Only uses alphanumerical characters |  |

#### Variables

|  |  |  |
| --- | --- | --- |
| Variable Name | Value Description | Notes |
| Letters | Contains the JavaScript regular expression for all characters and numbers | This is for the validation on the homepage so that the username and password fields can be validated |
| $\_CSESSION[“USERNAME\_LOGIN”] | Contains the username of the user currently logged in |  |
| $\_CSESSION[“LOGFAIL”] | Contains whether the user has failed to sign in or not |  |

#### Login Function

This is the function that is called when the user clicks the login button on the homepage. It takes the information stored in the fields and checks it against the data in the database. If it finds a match, then the user will be let in otherwise an error message will appear saying “Username or password incorrect”

#### Login Function Flow Diagram

This is a flow diagram for valid and invalid inputs for logging in. So, the user will click login with their respectful credentials and the database will be checked, if they match then it will log them in. If it can’t find the account, then it will show an error saying not found and then you will have to start the process again.

A picture containing clock

Description automatically generated

### Account Creation

This page will display all the relevant fields needed to create a profile on the website. This information is sent into the database where a new account is created for that user.

A screenshot of a cell phone

Description automatically generated

#### Account Creation Wireframe Design

Logo

Home Booking Countdown Signup Login

Email

Password

Username

House

Submit

#### Features

* User information fields

#### Validation

|  |  |  |
| --- | --- | --- |
| Field Name | Validation Method | Reason |
| First Name | • Name only uses alphabetical characters  • Between 1 and 20 characters | Names only have alphabetical letters in it and a standard name is between 1 and 20 characters |
| Last Name | * Name only uses alphabetical characters * Between 1 and 20 characters | Names only have alphabetical letters in it and a standard name is between 1 and 20 characters |
| Email | * Only uses characters that can be on emails in the specific format that emails use | Emails are a bit trickier to validate using a simple length and character method but there are specific JavaScript regular expressions |
| Password | * Only alphanumerical characters Between 6 and 20 characters | Passwords can be made of numbers as well as letters and 6-20 characters seems like a reasonable length |

#### Variables

|  |  |  |
| --- | --- | --- |
| Variable Name | Value Description | Notes |
| **$servername** | The name of the database | * In all my development this will be “localhost” |
| **$firstname** | The first name of the person who is creating an account | * Data will be assigned to it using the html method POST from the form on the previous html page |
| **$lastname** | The last name of the person who is creating an account | * Data will be assigned to it using the html method POST from the form on the previous html page |
| **$password** | The password of the user who is accessing the website | * The password also has nothing to do with the password of the account created on the database * In all my development this will be “root” |
| **$USERID** | A value between 0 and 999999 that is generated when the user signs up | * Completely individual to each user |
| **$passwordhash** | The hashed version of **$password** | * The hash will be created using the default php password\_hash() function |
| **$email** | The email of the account being created | * Data will be assigned to it using the html method POST from the form on the previous html page |

#### Security

In order to make the website and the users data kept away from anyone trying to illegitimately trying to get to it, I must put in place additional security features to prevent these threats from getting access to my system.

**SQL Injection –** This is where an attacker can input SQL into the website to try and gain access to the database. To prevent this, I will check when someone’s entering in anything it does not resemble SQL and that when a user asks a query to the database that it is unable to be output what the malicious program is trying to output.

**Hash Passwords –** In order to keep the user’s privacy secure even on the off-chance that a malicious user gets into my system, then all the passwords will be hashed so the hacker is unable to see what it is and use it against the registered user. To do this there is a simple php command which hashes the password to a 60-character length string that is stored.

#### Adding to the database

This stage of the design process requires putting the data entered by the user into the database itself. I will need to add all the information to it but only information that is necessary for the account creation and general usage of the system by the user like bookings or joining a group. I will create a function that will be used once the user has clicked submit, that will check for any missing data and any incorrect or incoherent data and after that add it to the database.

Diagram

Description automatically generated

#### Account Creation Function Flow Diagram

When a new account is created the user id is generated then enters all the data after checking it is valid and then stores it permanently. If any of the data is invalid then an error message will be shown to the user.

A close up of text on a black background

Description automatically generated

#### User ID creation

Each user ID will have to be unique as to not get confused with one another. In order to do this, I will use the tools given to me in phpMyAdmin to autoincrement the user ID. This will mean whenever a new account is created, it will automatically increase the unique ID of the user before by one. This means that all the user ID’s are unique.

Diagram

Description automatically generated

### Booking

This page is where the user will be able to book their allotted time to go and do the escape room. It will allow you to click a date and time and see if it is available. It will then store it in the database.

Diagram

Description automatically generated

#### Booking Wireframe Design

Logo

Home Booking Countdown Signup Login

Time

Date

Submit

Group Code

Submit

#### Features

* Has a calendar which users can select the date
* If date is available, then users will be able to set a time
* If time is available, then users can confirm a booking
* Users are also able to join a group
* If group code is correct, they can join the group

#### Validation

|  |  |  |
| --- | --- | --- |
| Field Name | Validation Method | Reason |
| Date | * Uses DD/MM/YYYY to ensure it available | Dates are set in a specific order |
| Time | * HH:MM * 24 hour | Time will be in 24 hours so as to not confuse am and pm.  It is set out like that as seconds is not necessary |

#### Variables

|  |  |  |
| --- | --- | --- |
| Variable Name | Value Description | Notes |
| DateBook | The date of the booking | So, when my stakeholder looks at the bookings, he knows the exact date when the users are coming |
| TimeBook | The time of the booking | So, when my stakeholder looks at the bookings, he knows the exact time when the users are coming |

#### Booking Flow Diagram

The user will select a date from the calendar function inbuilt into the website. It will then check if that date and time is free and if there is another booking as you can’t have multiple groups in the room at the same time. If it’s not available, then it will tell the user and they will have to find another date and time.

A picture containing hanger, object, clock

Description automatically generated

#### Group Joining Flow Diagram

The user will enter a code into a field and the valid code will check if its empty or not. It then checks if the code I valid then checks if the group has more than the maximum number of people. If the group does then they will have to find another group but otherwise it will add them to the group and take them to the countdown page.

Diagram

Description automatically generated

#### Valid Code and Group Full Flow Diagram

These valid codes check whether the code is valid and is in the database and sends an error message to the user if it does not exist. It also checks if the group has the maximum value of people and if it does it will tell the user otherwise it will add the user to the group.

Diagram

Description automatically generated Diagram

Description automatically generated

#### Group Validation

|  |  |  |
| --- | --- | --- |
| Field Name | Validation Method | Reason |
| Name | * Name only uses alphabetical characters | Names only have alphabetical letters in it |
| Email | * Only uses characters that can be on emails in the specific format that emails use | Emails are a bit trickier to validate using a simple length and character method but there are specific JavaScript regular expressions |
| Group Code | * Presence check * Database check | If the code does not exist, then they will be unable to join a group |
| Group Full | * Checks whether the group is full | If the group is full then the user will be unable to join that group and must join another one |

#### Variables

|  |  |  |
| --- | --- | --- |
| Variable Name | Value Description | Notes |
| InTeam | Checks if they are already in a group or not | They are unable to be in more than one group |
| G\_Name | The name of the team | They can change the name of their team |
| G\_Player | Number of players in the team with a minimum of 4 and a maximum of 8 allowed | You have to have at least 4 players and you will not be able to participate until you have the minimum amount required. It can be also used to check whether it is full or not to allow new people in or not |
| G\_Code | The code for the group | In order to join a group, you have to enter the code that the group leader sends you. |

### Countdown

This page will have a virtual alarm clock which will countdown to the exact time the user’s session starts.

Diagram

Description automatically generated

#### Countdown Wireframe Design

Home Booking Countdown Signup Login

Logo

Information regarding the booking

Date and Time of Booking

Group Code

Members of Group

Seconds

Minutes

Hours

Days

#### Features

* A virtual alarm clocks
* Information regarding the booking

#### Validation

|  |  |  |
| --- | --- | --- |
| Field Name | Validation Method | Reason |
| CBooking | * Boolean value either true or false | To check whether the user has a booking or not |

#### Variables

|  |  |  |
| --- | --- | --- |
| Variable Name | Value Description | Notes |
| DateOfBook | Finds the date of the booking | So, the alarm clock can measure the time till that day and countdown |
| Timeofbooking | Finds the time of the booking | So, the alarm clock can measure the time till the booking |

#### Countdown Flow Diagram

This code checks if the data is valid on whether they have a booking and if yes it shows them to the countdown page

A close up of a logo

Description automatically generated

### Database

This is the entity relationship diagram for the database. It will consist of a user’s table and, a groups table. The user will have all the users account details such as their USER\_ID which is the primary key. The groups table will store all the information relating to the group with the primary key of the group code: G\_Code. It will also have a foreign key of USER\_ID that shows who the group leader is.

Diagram

Description automatically generated

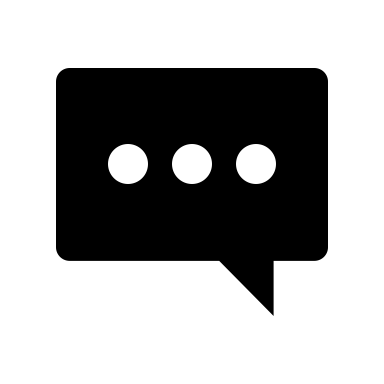
#### Data Dictionary

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | Table | Data Type | Notes |
| USER\_ID | User | Integer | * Values from 0 – 999999 * Primary Key |
| Name | User | String | * 1-225 characters long |
| Username | User | String | * 1-225 characters long |
| House | User | String/List | * Predetermined list of 13 |
| Password | User | String | * 1-225 characters long |
| Email | User | String/Email | * Alphanumeric characters including “\_” and “@” |
| G\_Code | Groups | Integer | * 4 Digit unique code * Primary key |
| User ID | Groups | Integer | * Values from 0 -999999 * Foreign Key |
| G\_D&T | Groups | Date | * DD/MM/YYYY * 24 hours |
| G\_Player | Groups | Integer | * Values 0-10 |
| G\_Name | Groups | String | * 1-225 characters long |

### Text-based Game

On this page there will be that game that will be only accessible once the countdown has reached 0. This means that the users will only be able to access it once they are in the escape room. The countdown page will disappear and be replaced by the text-based game. The game is played across all the devices in the team. It gives the user a clue which leads them to a letter. Depending how many people are in the group dictates how long the word is. All the letters are then used to spell out a word. It will have an in-built chat feature so the players can communicate with each other. Once the word is found, the Arduino will then be released leading them to the next clue.

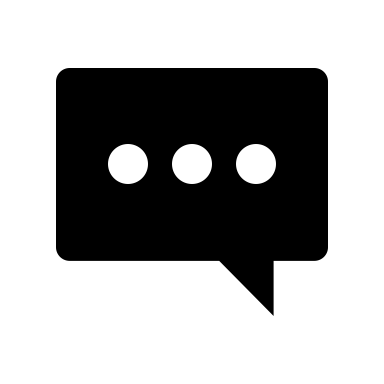
Text-based game Wireframe Design



Letter

Clue

Text-based game chat Wireframe Design

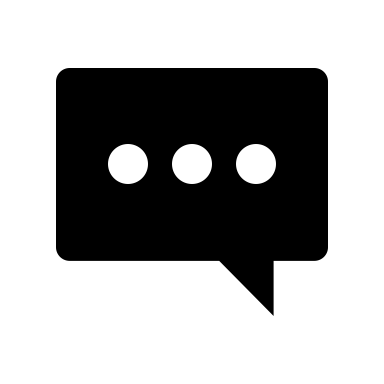


Previous messages

Send

Text Field for chats

Text-based game Word Wireframe Design



Letter

Letter

Letter

Letter

Letter

Features

* Have all devices being used
* Have one outcome that is correct
* A chat mode

Validation

|  |  |  |
| --- | --- | --- |
| Field Name | Validation Method | Reason |
| Muser | * Checks that the user is the lead user | To check whether the user can make changes or not |

Variables

|  |  |  |
| --- | --- | --- |
| Variable Name | Value Description | Notes |
| Comp | Checks if the game is complete or not | If the game Is complete It knows to trigger the Arduino |

Text-based game Flow Diagram

This code checks whether the countdown is complete and starts the game and then checks if the game is complete before opening the Arduino.

## A close up of text on a black background Description automatically generatedAlpha Test Plan

Alpha testing is a key component of my project to ensure everything is working at every stage. It will be done by testing all the modules after every prototype to ensure that after changing things all the components work and nothing was affected. It ensures that with every module I develop works individually of everything else and is not affected when I bring it into the website. Later in the documentation when I implement the project I will test and show any errors I encounter during the process. In terms of the data, I will be using:

Name: Joe

Username: Joemama

Email: [joe@hppc.com](mailto:joe@hppc.com)

Password: joe

House: Woodard

User ID: 1

Group:

Date: 25/05/2021

Time: 18:00

Group Code: 1234

G\_Name: Joe’s Team

Text-based game:

Word: TEST

User 1’s Letter: E

If anything, else is required or needs to be removed, it will be stated later in the documentation.

## Beta Test Plan

This will be used to test all the features of the website. It will make sure that all the different modules work simultaneously, side by side and that the website functions how it is meant to and is easy to use. By using a test plan, it makes it easier to iron out any errors that may occur and to check for them too. I can’t take the fact that it works for granted at any stage.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Number | Purpose | Test Data and Method | Type of test Data | Expected result |
| 1 | Test that all the links on the navbar work | Click all the tabs on the navigation bar | Valid | User is sent to the individual pages |
| 2 | Test creating an account with missing information | Name: Joe  Username: [Blank]  Email: [joe@hppc.com](mailto:joe@hppc.com)  Password: joe  House: Woodard | Invalid | An error message is shown asking the user to complete all the data |
| 3 | Test creating an account with correct information | Name: Joe  Username: Joemama  Email: [joe@hppc.com](mailto:joe@hppc.com)  Password: joe  House: Woodard | Valid | The user should be taken to the booking/join a group page |
| 4 | Test logging in with a valid account | Email: [joe@joe.com](mailto:joe@joe.com)  Password: joe | Valid | User should be taken to booking/join a group page |
| 5 | Test logging in with false data | Email: [notjoe@notjoe.com](mailto:notjoe@notjoe.com)  Password: notjoe | Invalid | Error saying user does not exist |
| 6 | Check the data is correct on the database when creating an account | Name: Joe  Username: Joemama  Email: [joe@hppc.com](mailto:joe@hppc.com)  Password: joe  House: Woodard  User ID: 1 | Valid | The database should show this information correctly under the allocated columns. The user will be sent to the booking/join a group page |
| 7 | Check that when invalid data is entered it is not added to the database | Name: Joe  Username: Joemama  Email: [joe@joe.com](mailto:joe@joe.com)  Password: joe  House: CS01  User ID: 1 | Invalid | Error message saying @joe.com not allowed. CS01 is Invalid House. This should not appear under the allocated columns. |
| 8 | Check that booking function works with correct data | Date: 25/05/2021  Time: 18:00 | Valid | The user should be taken to the countdown page |
| 9 | Check that booking function does not allow invalid data | Date: 25/05/2020  Time: 18:00 | Invalid | Error saying date in invalid please choose another date |
| 10 | Check that the booking data is stored correctly in the database | Date: 25/05/2021  Time: 18:00 | Valid | Database should show in the Group table the user id of the creator of the group (1) and the booking information in the allocated columns. |
| 11 | Check that the countdown clock outputs the correct time | Date: 25/05/2021  Time: 18:00 | Valid | The user is shown the correct and exact time until their booking |
| 12 | Try inputting false data and seeing whether the countdown clock shows the time | Date: 25/05/2020  Time: 18:00 | Invalid | An error message is displayed saying the date in invalid and to book another date |
| 13 | Try logging out of an account | Click logout button | Valid | The user should be sent to the homepage and be asked to sign in or log in. |
| 14 | Check the group code works to join a group | Group Code: 1234 | Valid | The user joins the group and is sent to the countdown page with all the necessary information |
| 15 | Try inputting an invalid group code | Group Code: 69420 | Invalid | Error message saying that the group does not exist |
| 16 | Check the countdown page has all the information | Group Code: 1234  Username: Joemama  Email: [joe@hppc.com](mailto:joe@hppc.com)  Password: joe  House: Woodard  Date: 25/05/2021  Time: 18:00 | Valid | Countdown page should have the group code, information on the date and time of the booking, the members of the group and the clock counting down to the correct time. |
| 17 | Check whether the website updates once the countdown reaches zero | N/A | Valid | The website should reload, and the user will be shown the text-based game page |
| 18 | Check when the user inputs their letter it tells them they are correct | Word: TEST  Letter: E | Valid | The user is shown correct and gets taken to the final page |
| 19 | Try submitting the wrong letter | Word: TEST  Letter: L | Invalid | Error message saying incorrect please try again |
| 20 | Check the chat function works and types a valid term | Message: Hello | Valid | The chat is sent to the other users playing the game |
| 21 | Try inputting an invalid message that could be seen as malicious | Message: \*/gain access/\* | Invalid | A message is shown stating that is unable to be sent |
| 22 | Check when users input the correct word it releases Arduino | Word: TEST | Valid | Message saying congratulation and next clue is given to the users |
| 23 | Try inputting an invalid word | Word: ETTS | Invalid | Message saying wrong, try again |

# Development

In this stage I will go through all the varying iteration of my project through screenshots of both the code and the output of the code showing the website. Once I have showed the iterations to my stakeholder I can then build from the original and make it to more of what my stakeholder wants. I plan to work on it modularly dependant on the predefined modules in the previous stage and work on them individually.

## Version 1

In this version I wanted to make the website look good over the functionality. I wanted to have a navigation bar that took you to all the different pages. The main focus of version 1 was for the styling to look good. This was important to me then functionality as I wanted it to attract people to it. The first stage was finding a colour scheme and I liked the idea of emerald and a dark grey. The contrast made it eye catching and it made it easier to make all the elements fit in.

### Homepage

I tried to model the homepage to be like the wireframe that has been previously documented in the design stage. The only thing is it is not how I wanted it to look, as my main objective for version 1 is for it to look good and easy on the eye.

**Screenshot**

A screenshot of a cell phone

Description automatically generated

Above is the first iteration of the homepage. The navigation bar is at the top in the colour emerald is sleek and when you hover over it, a bar goes above it showing you have highlighted it through CSS. However, I needed to change the hurst foundation sign to say Hurst Escape Room. I will do this later by using photoshop. The login form shown on the right-hand side is very basic and is just a plain form. Due to the fact I wanted version 1 to look good it was important for me to change the look of the login form. It differs from what I had planned in my decomposition diagram stated earlier by not having the relevant information about the escape room.

**Alpha Testing**

There was not much to test on this as it is mainly HTML code that does not control any functions it just shows content. The code for the login has not been coded yet. It looks similar to my wireframe in my Design stage so that is a positive. The CSS code worked as there is some formatting.

**Errors**

There were no errors when making this homepage other than the fact the logo that I was using was incorrect as it was one, I had just found on the internet that included the Hurst logo. I will fix this later on as it is not a major error and can easily be rectified.

**Homepage code**

<html>

<head>

*<!-- Naming the page -->*

<title>Hurst Escape Room</title>

<link href="style.css" rel="stylesheet" type="text/css">

</head>

<body>

<header>

<div class="nav-wrapper">

*<!-- Logo -->*

<img width="375" height="121" src="download.png" alt="logo" class="logo">

*<!-- Navigation bar with the links to the other pages -->*

<nav>

<ul>

<li>

<a href=AboutEscape.html> About</a>

</li>

<li>

<a href=BookEscape.html> Booking / Join a Group </a>

</li>

<li>

<a href=CountdownEscape.html> Countdown </a>

</li>

<li>

<a href=LoginEscape.html> Login </a>

</li>

<li>

<a href="logout.html">Logout</a>

</li>

</ul>

</nav>

</div>

</header>

</body>

</html>

**CSS**

I then decided to add some CSS to the form as then it meets my aims of version 1 which is to look aesthetically pleasing.

html {

background: #191919;

}

body {

background: #191919, #f5f5f5;

margin: 0;

padding: 0;

font-family: "Lato", sans-serif;

text-align: center;

font-weight: 100;

width: 100vw;

height: 100vh;

}

#right-bar {

float: right;

}

.site-logo {

float: left;

}

.container {

width: 80%;

margin: 0 auto;

}

header {

background: #50C878;

}

header::after {

content: '';

display: table;

clear: both;

}

.logo {

float: left;

}

nav {

float: left;

display: flex;

transition: none;

position: relative;

}

ul {

margin: 0;

padding: 0;

display: flex;

list-style: none;

}

li {

display: inline-block;

margin-left: 70px;

padding-top: 23px;

position: relative;

}

a {

text-decoration: none;

color: black;

padding-top: 200px;

font-family: Sans-serif;

text-transform: uppercase;

font-size: 20px;

transition: opacity 150ms ease-in-out;

}

a:hover {

color: black;

}

a::before {

content: '';

display: block;

height: 5px;

background-color: black;

position: absolute;

top: 0;

width: 0%;

transition: all ease-in-out 250ms;

}

a:hover::before {

width: 100%;

}

### Sign up

This account creation page has minimal styling despite my main aims of version 1. The reason for this is I wanted a base to start with and then build on it. I also decided to make the login and sign-up page a separate page from the home screen by asking my stakeholder for feedback and they said that the homepage should just be on the information about the escape, so it is not cluttered with the sign up and login forms. This page contains a few simple forms where users can input their data and when I add functionality, it will add that to the database. This differs from my wireframe diagram by not having them all below each other and instead in a line along the page. They also do not have similar formatting to the diagrams.

**Screenshot**

Graphical user interface

Description automatically generated

**Alpha Testing**

In order to test this, I had to use the data that I had previously defined in my design stage earlier. I inputted all the relevant data and clicked submit. As the submit button had no functionality nothing happened but I was successful in inputting the information and having the header sign up formatted.

Graphical user interface

Description automatically generated

**Signup Page Code**

<html>

<head>

<title>Hurst Escape Room Login</title>

*<!-- Naming the page and adding style sheets and other information -->*

<link href="style.css" rel="stylesheet" type="text/css">

<meta charset="UTF-8" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

</head>

<body>

<header>

<div class="nav-wrapper">

*<!-- Logo -->*

<img width="375" height="121" src="download.png" alt="logo" class="logo">

*<!-- Navigation bar -->*

<nav>

<ul>

<li>

<a href=AboutEscape.html> About</a>

</li>

<li>

<a href=BookEscape.html> Booking / Join a Group </a>

</li>

<li>

<a href=CountdownEscape.html> Countdown </a>

</li>

<li>

<a href=LoginEscape.html> Login </a>

</li>

<li>

<a href="logout.html">Logout</a>

</li>

</ul>

</nav>

</div>

</header>

*<!-- Login form -->*

<div class="main-container">

<form class="" action="" method="post">

<h1>Login</h1>

<input type="text" name="" placeholder="Email" />

<input type="password" name="" placeholder="Password" />

<input type="submit" name="" value="Login" />

</form>

</div>

</body>

*<!-- Sign up form -->*

<div class="main-container">

<form class=" " action="" method="POST">

<h1>Sign Up</h1>

<input type="text" name=" " placeholder="Name" />

<input type="email" name=" " placeholder="Email" />

<input type="password" name=" " placeholder="Password" />

<input type="submit" name=" " value="Sign Up">

</form>

</div>

</html>

**CSS**

html {

background: #191919;

}

body {

background: #191919, #f5f5f5;

margin: 0;

padding: 0;

font-family: "Lato", sans-serif;

text-align: center;

font-weight: 100;

width: 100vw;

height: 100vh;

}

#right-bar {

float: right;

}

.site-logo {

float: left;

}

.container {

width: 80%;

margin: 0 auto;

}

header {

background: #50C878;

}

header::after {

content: '';

display: table;

clear: both;

}

.logo {

float: left;

}

nav {

float: left;

display: flex;

transition: none;

position: relative;

}

ul {

margin: 0;

padding: 0;

display: flex;

list-style: none;

}

li {

display: inline-block;

margin-left: 70px;

padding-top: 23px;

position: relative;

}

a {

text-decoration: none;

color: black;

padding-top: 200px;

font-family: Sans-serif;

text-transform: uppercase;

font-size: 20px;

transition: opacity 150ms ease-in-out;

}

a:hover {

color: black;

}

a::before {

content: '';

display: block;

height: 5px;

background-color: black;

position: absolute;

top: 0;

width: 0%;

transition: all ease-in-out 250ms;

}

a:hover::before {

width: 100%;

}

h1 {

color: #396;

font-weight: 100;

font-size: 40px;

margin: 40px 0px 20px;

}

.main-container {

display: flex;

flex-direction: column;

align-items: center;

justify-content: center;

}

.main-container2 {

display: block;

flex-direction: column;

align-items: center;

justify-content: center;

}

### Booking/Join a group

The booking also has minimal styling despite the aims of version 1 but similar to the login and signup page, it was to build a base to then build up on. This page features a date selection tool and a time selection tool so when it has functionality this will create a new group in the database with this information in the allocated columns. This also has a form to input the group code encase the user wants to join a group which when it has functionality will add them to the database as part of that group. This differs from my wireframe diagram by not having them all below each other and instead in a line along the page. They also do not have similar formatting to the diagrams.

**Screenshot**

Graphical user interface, text, website

Description automatically generated

**Alpha Testing**

In order to test this, I had to use the test data I had previously stated in the design stage. I inputted the correct data and clicked submit however due to their being no functionality nothing happened, but I was successful in inputting the data for both making a booking and joining a group. The CSS worked as the headers we styled but the forms were not.

Graphical user interface, website

Description automatically generated

**Booking/ Join a Group Page Code**

<html>

<head>

*<!-- Naming the page and adding style sheets -->*

<title>Book Hurst Escape Room</title>

<link href="style.css" rel="stylesheet" type="text/css">

</head>

<body>

<header>

<div class="nav-wrapper">

*<!-- Logo -->*

<img width="375" height="121" src="download.png" alt="logo" class="logo">

*<!-- Navigation bar -->*

<nav>

<ul>

<li>

<a href=AboutEscape.html> About</a>

</li>

<li>

<a href=BookEscape.html> Booking </a>

</li>

<li>

<a href=CountdownEscape.html> Countdown </a>

</li>

<li>

<a href=GroupEscape.html> Create a Group </a>

</li>

<li>

<a href=LoginEscape.html> Login </a>

</li>

</ul>

</nav>

</div>

</header>

*<!--Make a booking form-->*

<form class="" action=" " method="post">

<h1>Make a Booking</h1>

<input type="Date" name="e">

<input type="Time" name="" placeholder="Time" />

<input type="submit" name="" value="Book" />

</form>

*<!--Join a Group form-->*

<div class="main-container">

<form class="" action=" " method="POST">

<h1>Join a Group</h1>

<input type="text" name="" placeholder="Type the code" />

<input type="submit" name="" value="Join Group">

</form>

</div>

</body>

</html>

**CSS**

html {

background: #191919;

}

body {

background: #191919, #f5f5f5;

margin: 0;

padding: 0;

font-family: "Lato", sans-serif;

text-align: center;

font-weight: 100;

width: 100vw;

height: 100vh;

}

#right-bar {

float: right;

}

.site-logo {

float: left;

}

.container {

width: 80%;

margin: 0 auto;

}

header {

background: #50C878;

}

header::after {

content: '';

display: table;

clear: both;

}

.logo {

float: left;

}

nav {

float: left;

display: flex;

transition: none;

position: relative;

}

ul {

margin: 0;

padding: 0;

display: flex;

list-style: none;

}

li {

display: inline-block;

margin-left: 70px;

padding-top: 23px;

position: relative;

}

a {

text-decoration: none;

color: black;

padding-top: 200px;

font-family: Sans-serif;

text-transform: uppercase;

font-size: 20px;

transition: opacity 150ms ease-in-out;

}

a:hover {

color: black;

}

a::before {

content: '';

display: block;

height: 5px;

background-color: black;

position: absolute;

top: 0;

width: 0%;

transition: all ease-in-out 250ms;

}

a:hover::before {

width: 100%;

}

h1 {

color: #396;

font-weight: 100;

font-size: 40px;

margin: 40px 0px 20px;

}

.main-container {

display: flex;

flex-direction: column;

align-items: center;

justify-content: center;

}

.main-container2 {

display: block;

flex-direction: column;

align-items: center;

justify-content: center;

}

### Countdown Page

The countdown page has minimal styling and has no functionality. I added the information seen on this page manually to show how it would look if there was live data inside it. This is to build a base for me to build up on later. When it has functionality the countdown clock will automatically count down using data it has received in the database and does a calculation to find the remaining time. This page currently looks close to what I planned in my wireframe in the design stage. It has information on the booking, then the current time and date received by the website using an API before displaying the countdown clock below. This is very different from my wireframe diagram. The format of the countdown is not in the boxes.

**Screenshot**Graphical user interface, text

Description automatically generated

**Alpha Testing**

There is nothing to test on this page yet as it does not have the ability to countdown yet, this is just example data being shown. You are also unable to see the data clearly due to the lack of CSS so that was a failure, but there was CSS for the imported clock and the header.

**Countdown Page Code**

<html>

<head>

*<!-- Naming the page and adding style sheets -->*

<title>Countdown Hurst Escape Room</title>

<link href="style.css" rel="stylesheet" type="text/css">

</head>

<body>

<header>

<div class="nav-wrapper">

*<!-- Logo -->*

<img width="375" height="121" src="download.png" alt="logo" class="logo">

*<!-- Navigation bar -->*

<nav>

<ul>

<li>

<a href=AboutEscape.html> About</a>

</li>

<li>

<a href=BookEscape.html> Booking </a>

</li>

<li>

<a href=CountdownEscape.html> Countdown </a>

</li>

<li>

<a href=GroupEscape.html> Create a Group </a>

</li>

<li>

<a href=LoginEscape.html> Login </a>

</li>

</ul>

</nav>

</div>

</header>

*<!-- The informaton on the escape room -->*

<span>Date : ['Date']; ?></span><br>

<span>Time : ['Time']; ?></span><br>

<span>Group Code : ['Code']; ?></span><br>

<span>Group Members : ['Players']; ?></span><br>

*<!-- The current time and date using an online API -->*

<iframe src="http://free.timeanddate.com/clock/i7frhqf4/n136/tluk/fs20/fcfff/tc000/pc000/tt0" frameborder="0" width="382" height="25"></iframe>

*<!-- The countdown clock -->*

<h1>Countdown Clock</h1>

<div>

<div>

<span class=" "></span>

<div class="smalltext">Days</div>

</div>

<div>

<span class=" "></span>

<div class="smalltext">Hours</div>

</div>

<div>

<span class=" "></span>

<div class="smalltext">Minutes</div>

</div>

<div>

<span class=" "></span>

<div class="smalltext">Seconds</div>

</div>

</div>

</body>

</html>

**CSS**

html {

background: #191919;

}

body {

background: #191919, #f5f5f5;

margin: 0;

padding: 0;

font-family: "Lato", sans-serif;

text-align: center;

font-weight: 100;

width: 100vw;

height: 100vh;

}

#right-bar {

float: right;

}

.site-logo {

float: left;

}

.container {

width: 80%;

margin: 0 auto;

}

header {

background: #50C878;

}

header::after {

content: '';

display: table;

clear: both;

}

.logo {

float: left;

}

nav {

float: left;

display: flex;

transition: none;

position: relative;

}

ul {

margin: 0;

padding: 0;

display: flex;

list-style: none;

}

li {

display: inline-block;

margin-left: 70px;

padding-top: 23px;

position: relative;

}

a {

text-decoration: none;

color: black;

padding-top: 200px;

font-family: Sans-serif;

text-transform: uppercase;

font-size: 20px;

transition: opacity 150ms ease-in-out;

}

a:hover {

color: black;

}

a::before {

content: '';

display: block;

height: 5px;

background-color: black;

position: absolute;

top: 0;

width: 0%;

transition: all ease-in-out 250ms;

}

a:hover::before {

width: 100%;

}

h1 {

color: #396;

font-weight: 100;

font-size: 40px;

margin: 40px 0px 20px;

}

.main-container {

display: flex;

flex-direction: column;

align-items: center;

justify-content: center;

}

.main-container2 {

display: block;

flex-direction: column;

align-items: center;

justify-content: center;

}

## Stakeholder Feedback

In order to improve each of the modules I have split the website into at this current stage I will have to talk to my stakeholder about what I can do to the first version of the project by asking them some questions.

Q: What would you like to see in the next version

A: It does not have any functionality it just has the building blocks and looks very simple. For version 2 I would say work on how it looks so you complete the aesthetics then for version 3 focus on functionality as well as adding the game.

Q: How user friendly is the website in its current state

A: In its current state it is user friendly however could be better if it looked good and so the user is more likely to engage with it.

## Version 2

Following my stakeholder feedback, I will make adjustments to the project. In this stage I will show the developments that have been made similar to what I did in version 1. Version 1 I mainly made a base for me on which in this version I will build upon by adding styling to it. I will only show the pages that have changed as pages like the homepage have not changed. I will also only show the extra CSS changes instead of the whole sheet.

### Sign up and Login Page

In terms of progressing with the sign up and login page I moved it to be separate from the homepage as my stakeholder thought it would be best. I then created a basic form that sits on the website. In version 2 I added styling using CSS to the form by creating a class I named “box” and customised the fields to match the colour scheme. When it is dormant and not been clicked it stays blue however when the user clicks the field to input their information it changes to green and gets bigger as shown in the screenshot below. This looks more similar to my wireframe diagrams however instead of having the login on the home page its now on its own page with sign up. Despite this, it has a similar colour scheme and look to it. This differs from the decomposition diagram as it was only meant to have sign up on here and now it has both the log in and sign up.

**Screenshot**

Graphical user interface, website

Description automatically generated

**Alpha Testing**

Like version 1 there is still no functionality within the buttons, so I inputted the data that has been stated previously in the design stage into the fields and it was successful but when clicking submit it does not do anything. The CSS was a successful test as when you clicked the box it would expand and change colour.

**Signup Page Code version 2**

<html>

<head>

<title>Hurst Escape Room Login</title>

*<!-- Naming the page and adding style sheets and other information -->*

<link href="style.css" rel="stylesheet" type="text/css">

<meta charset="UTF-8" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

</head>

<body>

<header>

<div class="nav-wrapper">

*<!-- Logo -->*

<img width="375" height="121" src="download.png" alt="logo" class="logo">

*<!-- Navigation bar -->*

<nav>

<ul>

<li>

<a href=AboutEscape.html> About</a>

</li>

<li>

<a href=BookEscape.html> Booking / Join a Group </a>

</li>

<li>

<a href=CountdownEscape.html> Countdown </a>

</li>

<li>

<a href=LoginEscape.html> Login </a>

</li>

<li>

<a href="logout.html">Logout</a>

</li>

</ul>

</nav>

</div>

</header>

*<!-- Login form -->*

<div class="main-container">

<form class="box" action="" method="post">

<h1>Login</h1>

<input type="text" name="" placeholder="Email" />

<input type="password" name="" placeholder="Password" />

<input type="submit" name="" value="Login" />

</form>

</div>

</body>

*<!-- Sign up form -->*

<div class="main-container">

<form class="box" action= " method="POST">

<h1>Sign Up</h1>

<input type="text" name=" " placeholder="Name" />

<input type="email" name=" " placeholder="Email" />

<input type="password" name=" " placeholder="Password" />

<input type="submit" name=" " value="Sign Up">

</form>

*<!-- The only change is there is now a class within the forms -->*

</div>

</html>

**CSS**

.login-form-wrap {

background: radial-gradient(ellipse at center, rgba(81, 112, 173, 1) 0%, rgba(53, 84, 147, 1) 100%);

border: 1px solid #2d416d;

box-shadow: 0 1px #5670A4 inset, 0 0 10px 5px rgba(0, 0, 0, 0.1);

border-radius: 5px;

width: 360px;

height: 380px;

margin: 60px auto;

padding: 50px 30px 0 30px;

text-align: center;

}

.login-form-wrap h1 {

margin: 0 0 50px 0;

padding: 0;

font-size: 26px;

color: #fff;

}

.login-form-wrap h5 {

margin-top: 40px;

}

.login-form-wrap h5 > a {

font-size: 14px;

color: #fff;

text-decoration: none;

font-weight: 400;

}

.login-form input[type="email"],

input[type="password"],

{

width: 100%;

border: 1px solid #314d89;

outline: none;

padding: 12px 20px;

color: #afafaf;

font-weight: 400;

font-family: 'Lato', sans-serif;

cursor: pointer;

}

.login-form input[type="email"] {

border-bottom: none;

border-radius: 4px 4px 0 0;

padding-bottom: 13px;

box-shadow: 0 -1px 0 #E0E0E0 inset,

0 1px 2px rgba(0, 0, 0, 0.23) inset;

}

.login-form input[type="password"] {

border-top: none;

border-radius: 0 0 4px 4px;

box-shadow: 0 -1px 2px rgba(0, 0, 0, 0.23) inset,

0 1px 2px rgba(255, 255, 255, 0.1);

}

.login-form input[type="submit"] {

font-family: 'Lato', sans-serif;

font-weight: 400;

background: linear-gradient(to bottom, rgba(224, 224, 224, 1) 0%, rgba(206, 206, 206, 1) 100%);

display: block;

margin: 20px auto 0 auto;

width: 100%;

border: none;

border-radius: 3px;

padding: 8px;

font-size: 17px;

color: #636363;

text-shadow: 0 1px 0 rgba(255, 255, 255, 0.45);

font-weight: 700;

box-shadow: 0 1px 3px 1px rgba(0, 0, 0, 0.17), 0 1px 0 rgba(255, 255, 255, 0.36) inset;

}

.box {

margin-top: 0%;

width: 400px;

padding: 40px;

*/\* position: absolute; \*/*

*/\* top: 50%;*

*left: 50%; \*/*

*/\* transform: translate(-50%, -50%); \*/*

background: #191919;

text-align: center;

}

.box h1 {

color: white;

text-transform: uppercase;

font-weight: 500;

}

.box input[type="text"],

.box input[type="password"],

.box input[type="email"] {

border: 0;

background: none;

display: block;

margin: 20px auto;

text-align: center;

border: 2px solid #3498db;

padding: 14px 10px;

width: 200px;

outline: none;

color: white;

border-radius: 24px;

transition: 0.25s;

}

.box input[type="text"]:focus,

.box input[type="password"]:focus,

.box input[type="email"]:focus {

width: 280px;

border-color: #2ecc71;

}

.box input[type="submit"] {

border: 0;

background: none;

display: block;

margin: 20px auto;

text-align: center;

border: 2px solid #2ecc71;

padding: 14px 40px;

outline: none;

color: white;

border-radius: 24px;

transition: 0.25s;

cursor: pointer;

}

.box input[type="submit"]:hover {

background: #2ecc71;

}

.box2 {

padding: 0px;

top: 90%;

}

.button-container {

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

}

.btn {

display: block;

height: 50px;

width: 186px;

position: relative;

overflow: hidden;

text-decoration: none;

text-transform: uppercase;

letter-spacing: 2px;

color: white;

font-size: 14px;

text-align: center;

&:after {

position: absolute;

content: '';

display: inline-block;

background: rgba(59, 173, 227, 1);

background: linear-gradient(45deg, rgba(59, 173, 227, 1) 0%, rgba(87, 111, 230, 1) 25%, rgba(152, 68, 183, 1) 51%, rgba(255, 53, 127, 1) 100%);

height: 50px;

width: 372px;

z-index: -1;

transform: translateX(-280px);

transition: transform 400ms ease-in;

}

&:hover {

&:after {

transform: translateX(-200px);

}

}

}

### Booking/Join a Group

In version 1 I had a basic interface for the booking and join a group page. In version 2 I added the same styling to the input fields and buttons as I did in the login and sign-up page previously documented to keep consistency throughout the website and so it does not look out of place and the user gets confused. This has the features I stated in my decomposition diagram with the booking and join a group on the same page in that order.

**Screenshot**

Graphical user interface, application, website

Description automatically generated

**Alpha Testing**

Like version 1 there is still no functionality within the buttons, so I inputted the data that has been stated previously in the design stage into the fields and it was successful but when clicking submit it does not do anything. The CSS was a failure for the date and time aspect as I wanted it to look more aesthetically pleasing but I could not find and alternative that had the same functionality.

**Errors**

I was unable to style the calendar and time function that is inbuilt into HTML. I tried searching for libraries that had similar functionality but none of them worked like the inbuilt one in HTML. This is why I chose to keep it despite it not looking aesthetically pleasing and fitting in with the colour scheme or aesthetic.

**Booking/ Join a Group Page Code version 2**

<html>

<head>

*<!-- Naming the page and adding style sheets -->*

<title>Book Hurst Escape Room</title>

<link href="style.css" rel="stylesheet" type="text/css">

</head>

<body>

<header>

<div class="nav-wrapper">

*<!-- Logo -->*

<img width="375" height="121" src="download.png" alt="logo" class="logo">

*<!-- Navigation bar -->*

<nav>

<ul>

<li>

<a href=AboutEscape.html> About</a>

</li>

<li>

<a href=BookEscape.html> Booking </a>

</li>

<li>

<a href=CountdownEscape.html> Countdown </a>

</li>

<li>

<a href=GroupEscape.html> Create a Group </a>

</li>

<li>

<a href=LoginEscape.html> Login </a>

</li>

</ul>

</nav>

</div>

</header>

*<!--Make a booking form & Join a group form -->*

<form class="box" action="addBooking.php" method="post">

<h1>Make a Booking</h1>

<input type="Date" name="Date">

<input type="Time" name="time" placeholder="Time" />

<input type="submit" name="" value="Book" />

</form>

<div class="main-container">

<form class="box" action="JoinGroup.php" method="POST">

<h1>Join a Group</h1>

<input type="text" name="g\_code" placeholder="Type the code" />

<input type="submit" name="u\_btn" value="Join Group">

</form>

</div>

</body>

</html>

**CSS**

.login-form-wrap {

background: radial-gradient(ellipse at center, rgba(81, 112, 173, 1) 0%, rgba(53, 84, 147, 1) 100%);

border: 1px solid #2d416d;

box-shadow: 0 1px #5670A4 inset, 0 0 10px 5px rgba(0, 0, 0, 0.1);

border-radius: 5px;

width: 360px;

height: 380px;

margin: 60px auto;

padding: 50px 30px 0 30px;

text-align: center;

}

.login-form-wrap h1 {

margin: 0 0 50px 0;

padding: 0;

font-size: 26px;

color: #fff;

}

.login-form-wrap h5 {

margin-top: 40px;

}

.login-form-wrap h5 > a {

font-size: 14px;

color: #fff;

text-decoration: none;

font-weight: 400;

}

.login-form input[type="email"],

input[type="password"],

{

width: 100%;

border: 1px solid #314d89;

outline: none;

padding: 12px 20px;

color: #afafaf;

font-weight: 400;

font-family: 'Lato', sans-serif;

cursor: pointer;

}

.login-form input[type="email"] {

border-bottom: none;

border-radius: 4px 4px 0 0;

padding-bottom: 13px;

box-shadow: 0 -1px 0 #E0E0E0 inset,

0 1px 2px rgba(0, 0, 0, 0.23) inset;

}

.login-form input[type="password"] {

border-top: none;

border-radius: 0 0 4px 4px;

box-shadow: 0 -1px 2px rgba(0, 0, 0, 0.23) inset,

0 1px 2px rgba(255, 255, 255, 0.1);

}

.login-form input[type="submit"] {

font-family: 'Lato', sans-serif;

font-weight: 400;

background: linear-gradient(to bottom, rgba(224, 224, 224, 1) 0%, rgba(206, 206, 206, 1) 100%);

display: block;

margin: 20px auto 0 auto;

width: 100%;

border: none;

border-radius: 3px;

padding: 8px;

font-size: 17px;

color: #636363;

text-shadow: 0 1px 0 rgba(255, 255, 255, 0.45);

font-weight: 700;

box-shadow: 0 1px 3px 1px rgba(0, 0, 0, 0.17), 0 1px 0 rgba(255, 255, 255, 0.36) inset;

}

.box {

margin-top: 0%;

width: 400px;

padding: 40px;

*/\* position: absolute; \*/*

*/\* top: 50%;*

*left: 50%; \*/*

*/\* transform: translate(-50%, -50%); \*/*

background: #191919;

text-align: center;

}

.box h1 {

color: white;

text-transform: uppercase;

font-weight: 500;

}

.box input[type="text"],

.box input[type="password"],

.box input[type="email"] {

border: 0;

background: none;

display: block;

margin: 20px auto;

text-align: center;

border: 2px solid #3498db;

padding: 14px 10px;

width: 200px;

outline: none;

color: white;

border-radius: 24px;

transition: 0.25s;

}

.box input[type="text"]:focus,

.box input[type="password"]:focus,

.box input[type="email"]:focus {

width: 280px;

border-color: #2ecc71;

}

.box input[type="submit"] {

border: 0;

background: none;

display: block;

margin: 20px auto;

text-align: center;

border: 2px solid #2ecc71;

padding: 14px 40px;

outline: none;

color: white;

border-radius: 24px;

transition: 0.25s;

cursor: pointer;

}

.box input[type="submit"]:hover {

background: #2ecc71;

}

.box2 {

padding: 0px;

top: 90%;

}

.button-container {

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

}

.btn {

display: block;

height: 50px;

width: 186px;

position: relative;

overflow: hidden;

text-decoration: none;

text-transform: uppercase;

letter-spacing: 2px;

color: white;

font-size: 14px;

text-align: center;

&:after {

position: absolute;

content: '';

display: inline-block;

background: rgba(59, 173, 227, 1);

background: linear-gradient(45deg, rgba(59, 173, 227, 1) 0%, rgba(87, 111, 230, 1) 25%, rgba(152, 68, 183, 1) 51%, rgba(255, 53, 127, 1) 100%);

height: 50px;

width: 372px;

z-index: -1;

transform: translateX(-280px);

transition: transform 400ms ease-in;

}

&:hover {

&:after {

transform: translateX(-200px);

}

}

}

### Countdown Page

In version 1, the countdown page was very basic, and you were unable to read any of the information as the text was black on a dark grey background. This meant the user would be unable to see this clearly and may not be able to use the website easily. The countdown also was hard to see as it was text and nit very well defined causing the same issue of the user not being able to see the information being shown to them. With this version the CSS allows the user to see the information properly.

**Screenshot**

Graphical user interface, text, application

Description automatically generated

**Alpha Testing**

There is nothing to test on this page yet as it does not have the ability to countdown yet, this is just example data being shown. However, now the user is able to see the information much better than before due to the CSS being a success.

**Countdown Page Code version 2**

<html>

<head>

*<!-- Naming the page and adding style sheets -->*

<title>Countdown Hurst Escape Room</title>

<link href="style.css" rel="stylesheet" type="text/css">

</head>

<body>

<header>

<div class="nav-wrapper">

*<!-- Logo -->*

<img width="375" height="121" src="download.png" alt="logo" class="logo">

*<!-- Navigation bar -->*

<nav>

<ul>

<li>

<a href=AboutEscape.html> About</a>

</li>

<li>

<a href=BookEscape.html> Booking </a>

</li>

<li>

<a href=CountdownEscape.html> Countdown </a>

</li>

<li>

<a href=GroupEscape.html> Create a Group </a>

</li>

<li>

<a href=LoginEscape.html> Login </a>

</li>

</ul>

</nav>

</div>

</header>

*<!-- The informaton on the escape room -->*

<div id="escinfo"></div>

<span>Date : ['Date']; ?></span><br>

<span>Time : ['Time']; ?></span><br>

<span>Group Code : ['g\_code']; ?></span><br>

<span>Group Members : ['Players']; ?></span><br>

</div>

*<!-- The current time and date using an online API -->*

<iframe src="http://free.timeanddate.com/clock/i7frhqf4/n136/tluk/fs20/fcfff/tc000/pc000/tt0" frameborder="0" width="382" height="25"></iframe>

*<!-- The countdown clock -->*

<h1>Countdown Clock</h1>

<div id="clockdiv">

<div>

<span class="days"></span>

<div class="smalltext">Days</div>

</div>

<div>

<span class="hours"></span>

<div class="smalltext">Hours</div>

</div>

<div>

<span class="minutes"></span>

<div class="smalltext">Minutes</div>

</div>

<div>

<span class="seconds"></span>

<div class="smalltext">Seconds</div>

</div>

</div>

</body>

</html>

**CSS**

#clockdiv {

font-family: sans-serif;

color: #fff;

display: inline-block;

font-weight: 100;

text-align: center;

font-size: 30px;

}

#clockdiv > div {

padding: 10px;

border-radius: 3px;

background: #000000;

display: inline-block;

}

#clockdiv div > span {

padding: 15px;

border-radius: 3px;

background: #000000;

display: inline-block;

}

.smalltext {

padding-top: 5px;

font-size: 16px;

}

#escinfo {

color: #ffffff;

font-weight: 100;

font-size: 40px;

margin: 40px 0px 20px;font-family: 'Roboto', sans-serif;

background-color: #191919;

}

## Stakeholder Feedback

I went to back to my stakeholder after developing this second prototype to ask them some more questions on how it can be improved and what needs to be added.

Q: Do you think the project has improved since last time?

A: Yes, it definitely has. The styling is all there apart from the calendar and time but that is ok as it is only a small detail that does the function it is meant to. I really like the colour scheme and how everything matches across the site.

Q: What do I need to do for version 3?

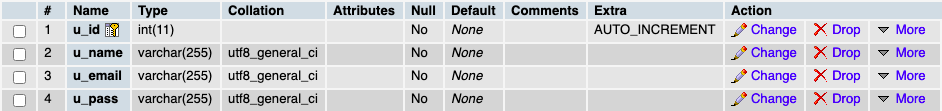
A: Add functionality to all the pages so it works as it looks good now it needs to actually work. As well as add the text-based game.

## Final Version

My final version consists of making everything work. It builds off of the previous versions in order to keep within what my stakeholder wants.

### Database

I started version 3 with creating my database where all the information is going to be stored to do with the escape room like the user account information and the booking information on top of the groups. I started by creating just two tables in my database I called system: users and Group1.



Table

Description automatically generated

The names with the key next to their name are primary keys which means that it is unique. I will be inserting data both through using phpMyAdmin and the website for testing purposes.

**Database Code**

*-- Host: localhost:8889*   
*-- Generation Time: Jan 24, 2021 at 08:04 PM*   
*-- Server version: 5.7.30*   
*-- PHP Version: 7.4.9*   
SET sql\_mode = "NO\_AUTO\_VALUE\_ON\_ZERO";SET time\_zone = "+00:00";   
*--*   
*-- Database: `system`*   
*--*CREATE DATABASEIF NOT EXISTS `system` DEFAULT character   
SET utf8 COLLATE utf8\_general\_ci;USE `system`;   
*-- --------------------------------------------------------*   
*--*   
*-- Table structure for table `Group1`*   
*--*   
*-- Creation: Nov 19, 2020 at 11:52 AM*   
*-- Last update: Jan 24, 2021 at 07:52 PM*   
*--*CREATE TABLE `INSERT INTO `group1`   
            (   
                        `g\_code`,   
                        `u\_id`,   
                        `date`,   
                        `time`,   
                        `g\_players`   
            )   
              
*-- --------------------------------------------------------*   
  
*--*   
*--*   
*-- Indexes for table `Group1`*   
*--*ALTER TABLE `group1` ADD PRIMARY KEY (`g\_code`);   
  
*--*   
*-- Indexes for table `users`*   
*--*ALTER TABLE `users` ADD PRIMARY KEY (`u\_id`);   
   
*---- --------------------------------------------------------*   
*--*   
*-- Table structure for table `users`*   
*--*   
*-- Creation: Nov 19, 2020 at 11:50 AM*   
*-- Last update: Jan 24, 2021 at 01:48 PM*   
*--*INSERT INTO `users`   
            (   
                        `u\_id`,   
                        `u\_name`,   
                        `u\_email`,   
                        `u\_pass`

)

*- Indexes for dumped tables*   
*--*   
*--*   
*-- Indexes for table `Group1`*   
*--*ALTER TABLE `group1` ADD PRIMARY KEY (`g\_code`);   
  
*--*   
*-- Indexes for table `users`*   
*--*ALTER TABLE `users` ADD PRIMARY KEY (`u\_id`);   
  
*--*   
*-- AUTO\_INCREMENT for dumped tables*   
*--*   
*--*   
*-- AUTO\_INCREMENT for table `users`*   
*--*ALTER TABLE `users` modify `u\_id` int(11) NOT NULL auto\_increment,   
            auto\_increment=13;

### Configuration

In order to connect the database and the website together I had to make a configuration algorithm that connects them together using php. This is what all the functions throughout the website will use to connect to the database.

**Configuration code (config.php)**

<?php

$server = 'localhost';

$user = 'root';

$pass = 'root';

$db = 'system';

//connects to the database

$conn = mysqli\_connect($server,$user,$pass) or die("error");

session\_start();

$selectdb = mysqli\_select\_db($conn,$db) or die("error");

//changes value of login

if (isset($\_SESSION["login"])) {

$login = $\_SESSION["login"];

}else{

$login = 0;

}

?>

This starts a session and connects the user to the database. If they are logged in it changes the value of $login but if it is 0 it means the user is not connected.

### Account creation

In order to create an account, I needed the information the user inputted in the form on the signup page and be sent to the database and stored there. I found a way to pass variables through the fields and then send them to the database. From learning this I changed the code in the forms to have variable too and call them the same as they are in the database to not confuse me with what they are.

**Form code**

*<!-- Sign up form -->*

<div class="main-container">

<form class="box" action="register.php" method="POST">

<h1>Sign Up</h1>

<input type="text" name="u\_name" placeholder="Name" />

<input type="email" name="u\_email" placeholder="Email" />

<input type="password" name="u\_pass" placeholder="Password" />

<input type="submit" name="u\_btn" value="Sign Up">

</form>

</div>

I set the form to carry out register.php in order to add the users to the database. I then set the names in the forms to what they are in the database.

**Signup Code (register.php)**

<?php

*//connecting to the database*

include 'config.php';

if ($login == 1) {

*//If successful it will send them to the booking page*

echo " <meta http-equiv='refresh' content='0; url=BookEscape.html'>";

}else {

*//variables to add to the database*

if (isset($\_POST["u\_btn"])) {

$u\_name = $\_POST["u\_name"];

$u\_email = $\_POST["u\_email"];

$u\_pass = $\_POST["u\_pass"];

*//checks if all the fields have data*

if (empty($u\_name) || empty($u\_email) || empty($u\_pass) ) {

echo "Please complete all Data";

}else{

*//Puts the data in the fields into the database*

$insert = mysqli\_query($conn,"INSERT INTO `users` (`u\_name`, `u\_email`, `u\_pass`) VALUES ('$u\_name', '$u\_email', '$u\_pass')");

*//If successful it will send them to the booking page*

session\_start();

$\_SESSION['login'] = $row["u\_id"];

header('Location:BookEscape.html);

}

}

}

?>

**Alpha Testing**

Now that the signup form has functionality, I used the data previously stated in the design stage to create an account and see whether it took me to the booking page after signing me up and whether it added it to the database. Once I clicked submit it sent me to the booking page and was successfully added to the database.

Graphical user interface, application, website

Description automatically generated



**Errors**

When making the register algorithm I only made a few errors. Majority of them could be easily corrected as they were syntax errors where I forgot to add “;” at the end of each statement. This would cause the code to force an error. The only other error I encountered was once the user clicks submit instead of making them log in again it would send them directly to the booking page. This was difficult and I had to search the documentation till I found the “header” command which solved the issue I had of sending the user to the booking page.

### Logging in

Once the user has created an account my next step was to make them able to log in again. This is so if the user ever went away and closed the tab the user is able to go back to the website and access everything. I needed to access the database so the user can type their details and then it finds them in the database and only allows them if they match. I used the same variables in the signup code.

**Form code**

*<!-- Login form -->*

<div class="main-container">

<form class="box" action="login.php" method="post">

<h1>Login</h1>

<input type="text" name="u\_email" placeholder="Email" />

<input type="password" name="u\_pass" placeholder="Password" />

<input type="submit" name="u\_btn" value="Login" />

</form>

</div>

I set the form to carry out login.php in order to check the users are in the database.

**Log In Code (login.php)**

<?php

*//connects to db*

include 'config.php';

if (isset($\_POST["u\_btn"])) {

$u\_email = $\_POST['u\_email'];

$u\_pass = $\_POST['u\_pass'];

if (empty($u\_email) || empty($u\_pass)) {

*//checks all data is there*

echo "Please Complete all data";

}else{

$selectfdb = mysqli\_query($conn,"SELECT \* FROM users WHERE u\_email = '$u\_email' AND u\_pass = '$u\_pass'");

$row = mysqli\_fetch\_array($selectfdb);

if ($row["u\_email"] == $u\_email && $row["u\_pass"] == $u\_pass) {

*// logs them in and send them to booking page*

session\_start();

$\_SESSION['login'] = $row["u\_id"];

*//setcookie('login',1,time()+(3600 + 24));*

*//echo "hello";*

*//echo " <meta http-equiv='refresh' content='0; url=profile.php'>";*

header('Location:BookEscape.html);

}else {

*//if failed then takes them back to login page*

header('Location:LoginEscape.html');

}

}

?>

**Logout code (logout.php)**

<?php

session\_start();

session\_destroy();

header('Location:LoginEscape.html');

?>

**Alpha Testing**

Now that the login form has functionality, I used the data previously stated in the design stage to log into an account and see whether it took me to the booking page after logging me. Once I clicked submit it sent me to the booking page which is a success. I also tested logout which destroys the session meaning the person is logged out.

**Screenshot**

Graphical user interface, application, website

Description automatically generated

**Errors**

When making the login algorithm I encountered an error where it would take the user back to the login page even if the information used was correct. This was due to an error in the session code meaning that the session did not start, and the website thought the user is not logged in causing them to be stuck in an infinite loop. To fix this, I added some code I found in the php documentation $\_SESSION['login'] = $row["u\_id"];

This fixed the error.

### Validating if the user has an account

I did not want illegitimate users accessing the pages such as booking/ join a group or the countdown page if they did not have an account. In order to solve this, I asked my teacher what I could do, and they gave me a solution. By changing the code, the website pages, I wanted to make locked unless the user has an account. I had to add some php stating that if login was 0 then send the user to the signup page. If the user was signed in, then change the value of login to their user id which is never 0.

**Code**

<?php include 'config.php';

if ($login == 0) {

header('Location:LoginEscape.html');

}

?>

I added this code to the booking page and the countdown page as you should only access them if you have an account. Then there was an error as the user could access the countdown page without a booking, so I added another line in the countdown page.

**Code**

<?php include 'config.php';

if ($login == 0) {

header('Location:LoginEscape.html');

}

if ($booking == 0) {

header('Location:BookEscape.html');

}

?>

So, when the user makes a booking, their booking value goes to the group code which is also unable to be 0 allowing them access to the countdown page. If they do not have a booking and try to access the countdown page, it will automatically take them to the booking page.

**Errors**

When I tried this after coding it, it did not work. This is because I needed to change the pages such as booking and countdown to .php instead of .html otherwise the php code would not work. Then after renaming the files, it still did not work. This was due to me not changing the navigation bar to direct it to the php pages as instead it was directing them to HTML pages that no longer existed. To fix this, I had to change the navigation bar on every page to have .php on the pages that required it.

**Code**

<header>

<div class="nav-wrapper">

<img width="375" height="121" src="download.png" alt="logo" class="logo">

<nav>

<ul>

<li>

<a href=AboutEscape.html> About</a>

</li>

<li>

<a href=BookEscape.php> Booking / Join a Group </a>

</li>

<li>

<a href=CountdownEscape.php> Countdown </a>

</li>

<li>

<a href=LoginEscape.html> Login </a>

</li>

<li>

<a href="logout.php">Logout</a>

</li>

</ul>

</nav>

</div>

</header>

**Alpha Testing**

After ironing out all the errors previously stated, when clicking on the tabs when I was not logged in sent me to the log in page and then when I was logged in, the countdown page sent me to the booking page. Thus, I can conclude it was a successful test.

### Making a Booking

Once the user has created an account, logged in and been verified that they are logged in, the user must then be able to make a booking. This is the whole point of the website, to remove the need for a paper-based system or remove my stakeholder getting lots of emails. The website would do that for them. It was important that the data inputted by the user was added to the database such as the date and time and was added to the allocated column along with other information such as the user ID of the creator and the group code that would be randomly generated. This meant editing the form to perform a function that did this.

**Code**

<div class="main-container">

<form class="box" action="addBooking.php" method="post">

<h1>Make a Booking</h1>

<input type="Date" name="Date">

<input type="Time" name="Time" />

<input type="submit" name="" value="Book" />

</form>

</div>

I decided to call that program “addBooking.php” as that is a suitable name.

**Booking Code (addBooking.php)**

<?php

include 'config.php';

if ($login == 0)

{

*//echo " <meta http-equiv='refresh' content='0; url=profile.php'>";*

}

else

{

*//passes the data from the form to the database*

$Date = $\_POST["Date"];

$Time = $\_POST["Time"];

*//creates random code*

$digits = 4;

$g\_code= rand(pow(10, $digits-1), pow(10, $digits)-1);

*//$g\_code = $\_["g\_code"];*

*//$g\_id = $\_POST["g\_id"];*

$u\_id = $\_SESSION['login'];

*//checks if fields are empty*

if (empty($Date) || empty($Time) )

{

echo "Please complete all Data";

}else

{

*//inserts into db*

$SQL = "INSERT INTO Group1 (`Date`, `Time`, `g\_code`, `u\_id`) VALUES ('$Date', '$Time', '$g\_code', '$u\_id')";

$insert = mysqli\_query($conn,$SQL);

header('Location:CountdownEscape.php');

echo $SQL;

}

}

?>

**Alpha Testing**

Now that the booking form has functionality, I used the data previously stated in the design stage to create a booking and see whether it took me to the countdown page after booking me and whether it added it to the database. Once I clicked submit it sent me to the countdown page and was successfully added to the database.

**Screenshots**



Graphical user interface, text, application

Description automatically generated

**Errors**

When I first coded it, the data was not being added to the database. This was because I was sending it to the users table instead of Group1. This caused the error as the data could not find the allocated column. To fix this I just changed the name of the table the data was entering to Group1 where it should enter.

### Countdown

Once they user has made a booking, my next priority was to make the countdown page function properly by gathering data from the database and calculate the remaining time from the current time to the date of the booking and display it. I also needed to get the information about the booking onto the page such as the date and time, the group code and the people in the group.

**Code for information**

<div id="escinfo">

<?php

$u\_id = $\_SESSION['login'];

$getinfo = mysqli\_query($conn,"SELECT \* FROM Group1 WHERE u\_id = $u\_id ");

$arr = mysqli\_fetch\_array($getinfo);

?>

*<!-- shows the date, time and group code -->*

<span>Date : <?php echo $arr ['Date']; ?></span><br>

<span>Time : <?php echo $arr ['Time']; ?></span><br>

<span>Group Code : <?php echo $arr ['g\_code']; ?></span><br>

What this does, is it goes to the database and looks at the user id of the person accessing the page and looks at where the user id matches in the database and then shows the information in that record relating to that users id.

The next part was the hardest part. Getting the countdown clock to work.

**Code for the Countdown**

<?php

*//finds the current date*

$date1 = new DateTime();

$date1 = $date1->getTimestamp();

*//echo $date1;*

*//$datetime = '2020-10-12 14:35:08';*

*//finds the date of the booking*

$date2 = (new DateTime($arr ['Date']." ". $arr ['Time']))->getTimestamp();

*//calculates the time difference*

$count= $date2 - $date1;

*//calculates the time in seconds*

$count=$count/86400;

?>

</div>

<script>

*//converts the php function into JS*

var php\_var = "<?php echo $count; ?>";

*//finds the time remaining*

function getTimeRemaining(*endtime*) {

const total = Date.parse(endtime) - Date.parse(new Date());

const seconds = Math.floor((total / 1000) % 60);

const minutes = Math.floor((total / 1000 / 60) % 60);

const hours = Math.floor((total / (1000 \* 60 \* 60)) % 24);

const days = Math.floor(total / (1000 \* 60 \* 60 \* 24));

*//returns the time remaining in days, hours, minutes and seconds*

return {

total,

days,

hours,

minutes,

seconds

};

}

*//starts the clock*

function initializeClock(*id*, *endtime*) {

const clock = document.getElementById(id);

const daysSpan = clock.querySelector('.days');

const hoursSpan = clock.querySelector('.hours');

const minutesSpan = clock.querySelector('.minutes');

const secondsSpan = clock.querySelector('.seconds');

*//updates the clock*

function updateClock() {

const t = getTimeRemaining(endtime);

daysSpan.innerHTML = t.days;

hoursSpan.innerHTML = ('0' + t.hours).slice(-2);

minutesSpan.innerHTML = ('0' + t.minutes).slice(-2);

secondsSpan.innerHTML = ('0' + t.seconds).slice(-2);

if (t.total <= 0) {

clearInterval(timeinterval);

}

}

updateClock();

const timeinterval = setInterval(updateClock, 1000);

}

*//runs the php function "php\_var" into the clock*

const deadline = new Date(Date.parse(new Date()) + php\_var \* 24 \* 60 \* 60 \* 1000);

initializeClock('clockdiv', deadline);

</script>

The reason this was the hardest part was because I had to run a function created in php in JavaScript. The php finds the current date then finds the date of the booking and finds the difference in seconds. Then by using a function I found in the documentation I found a way to convert the php function into JavaScript. The JavaScript then calculates the time in days, hours, minutes and seconds. It then outputs that time through the clock.

**Alpha Testing**

Now that the countdown page has functionality, I used the data previously stated in the design stage to create a booking and see when it took me to the countdown page it showed the correct information and counted down to the correct time. Once I clicked submit it took me to the countdown page where all the information was correct.

**Screenshot**

Graphical user interface, text, application

Description automatically generated

**Errors**

One of the main issues I encountered was turning the php function and letting it run in JavaScript. This was fixed by going through the documentation of php and finding the way of passing it through JavaScript.

### Joining a Group

If a user doesn’t want to make a booking, then they are given the option of joining a group. For this I needed the information the user inputted in the form on the join a group page and be checked with the database. I found a way to pass variables through the fields and then send them to the database. From learning this I changed the code in the forms to have variable too and call them the same as they are in the database to not confuse me with what they are.

**Form Code**

<div class="main-container">

<form class="box" action="JoinGroup.php" method="POST">

<h1>Join a Group</h1>

<input type="text" name="g\_code" placeholder="Type the code" />

<input type="submit" name="u\_btn" value="Join Group">

</form>

</div>

**Join a Group code (JoinGroup.php)**

<?php

include 'config.php';

if ($login == 0)

{

*//echo " <meta http-equiv='refresh' content='0; url=profile.php'>";*

}

else

{

*//checks code exists in db*

$g\_code = "g\_code";

$u\_id = $\_SESSION['login'];

*//checks if field is empty*

if (empty($g\_code) )

{

echo "Please complete all Data";

}else

{

*//if the code is correct then adds them to that group in the db*

$SQL = "INSERT INTO Group1: (`u\_id`) VALUES ('$u\_id') WHERE (`g\_code`) VALUES ('$g\_code')" ;

$insert = mysqli\_query($conn,$SQL);

header('Location:CountdownEscape.php');

echo $SQL;

}

}

?>

The code checks whether the user has inputted a code, f they have it checks it exists in the database and if it does it adds them to the group with that code.

**Alpha Testing**

Now that the join group function has functionality, I used the data previously stated in the design stage to join a group and see when it took me to the countdown page it showed the correct information and counted down to the correct time. Once I clicked submit it took me to the countdown page where all the information was correct, and it had successfully added me to the group in the database. I created a new account called “LeBron” and used that to join the group.

**Screenshots**



Graphical user interface, text, application

Description automatically generated

### Text-based game

Unfortunately, due to the pandemic and time constraints I was unable to code the text-based game that would occur at the end of the countdown. All things considered I think the website serves two thirds of the functions I set out, but it is a shame that I was unable to get this done as I think it would have been a fun component to not only make but participate in.

# Evaluation

## Testing to inform evaluation

### Beta testing

For this stage I am going to show my original Beta test plan with the points from my original test plan and show my points below. I will use these results to improve it in the future.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Number | Purpose | Test Data and Method | Result | Pass or Fail |
| 1 | Test that all the links on the navbar work  (Robust) | Click all the tabs on the navigation bar | All the links go to the correct pages | Pass |
| 2 | Test creating an account with missing information  (Robust) | Name: Joe  Username: [Blank]  Email: [joe@hppc.com](mailto:joe@hppc.com)  Password: joe  House: Woodard | Error message saying please complete the data | Pass |
| 3 | Test creating an account with correct information  (Robust) | Name: Joe  Username: Joemama  Email: [joe@hppc.com](mailto:joe@hppc.com)  Password: joe  House: Woodard | A new account was created and added to the database | Pass |
| 4 | Test logging in with a valid account  (Robust) | Email: [joe@joe.com](mailto:joe@joe.com)  Password: joe | Sent me to the booking page and logged me in | Pass |
| 5 | Test logging in with false data  (Robust) | Email: [notjoe@notjoe.com](mailto:notjoe@notjoe.com)  Password: notjoe | Said incorrect please try again | Pass |
| 6 | Check the data is correct on the database when creating an account  (Function) | Name: Joe  Username: Joemama  Email: [joe@hppc.com](mailto:joe@hppc.com)  Password: joe  House: Woodard  User ID: 1 | Checked the database and was all correct | Pass |
| 7 | Check that when invalid data is entered it is not added to the database  (Robust) | Name: Joe  Username: Joemama  Email: [joe@joe.com](mailto:joe@joe.com)  Password: joe  House: CS01  User ID: 1 | No validation on house so it allowed me to enter CS01 | Fail |
| 8 | Check that booking function works with correct data  (Function) | Date: 25/05/2021  Time: 18:00 | Took me to countdown page and showed the information | Pass |
| 9 | Check that booking function does not allow invalid data  (Function) | Date: 25/05/2020  Time: 18:00 | Gave me a negative time | Fail |
| 10 | Check that the booking data is stored correctly in the database  (Function) | Date: 25/05/2021  Time: 18:00 | Checked the database and was correct | Pass |
| 11 | Check that the countdown clock outputs the correct time  (Robust) | Date: 25/05/2021  Time: 18:00 | Outputted the correct time until the event | Pass |
| 12 | Try logging out of an account  (Function) | Click logout button | Logged me out | Pass |
| 13 | Check the group code works to join a group  (Robust) | Group Code: 1234 | Added me to the group | Pass |
| 14 | Try inputting an invalid group code  (Robust) | Group Code: 69420 | Said invalid group | Pass |
| 15 | Check the countdown page has all the information  (Function) | Group Code: 1234  Username: Joemama  Email: [joe@hppc.com](mailto:joe@hppc.com)  Password: joe  House: Woodard  Date: 25/05/2021  Time: 18:00 | Has all the information provided | Pass |
| 16 | Check whether the website updates once the countdown reaches zero  (Robust) | N/A | Text-based game was not coded due to time restrictions | N/A |
| 17 | Check when the user inputs their letter it tells them they are correct  (Robust) | Word: TEST  Letter: E | Text-based game was not coded due to time restrictions | N/A |
| 18 | Try submitting the wrong letter  (Robust) | Word: TEST  Letter: L | Text-based game was not coded due to time restrictions | N/A |
| 19 | Check the chat function works and types a valid term  (Function) | Message: Hello | Text-based game was not coded due to time restrictions | N/A |
| 20 | Try inputting an invalid message that could be seen as malicious  (Function) | Message: \*/gain access/\* | Text-based game was not coded due to time restrictions | N/A |
| 21 | Check when users input the correct word it releases Arduino  (Robust) | Word: TEST | Text-based game was not coded due to time restrictions | N/A |
| 22 | Try inputting an invalid word  (Robust) | Word: ETTS | Text-based game was not coded due to time restrictions | N/A |

### Evidence

|  |  |  |
| --- | --- | --- |
| Test Number | Evidence | |
| 1 | | N/A – The evidence can be found in the code; the buttons appear on the webpage and because the code is correct, and they are there thy must also be linked |
| 2 | |  |
| 3 | | Graphical user interface, application, website  Description automatically generated  It signed me in and took me to the booking page |
| 4 | | Graphical user interface, application, website  Description automatically generated  It signed me in and took me to the booking page |
| 5 | | Graphical user interface, application  Description automatically generated |
| 6 | |  |
| 7 | | It still added it to the database as there is no validation on houses |
| 8 | | Graphical user interface, application  Description automatically generated  Booking function works |
| 9 | | Graphical user interface, application  Description automatically generated  It did not say the time was invalid and instead gave me a negative time |
| 10 | | Added to the database |
| 11 | | Graphical user interface, application  Description automatically generated  Correct time is outputted |
| 12 | | This is shown using the logout php function which is shown in the code and it destroys the session logging the user out. |
| 13 | | Graphical user interface, text, application  Description automatically generated  It added the new user LeBron to the group successfully |
| 14 | |  |
| 15 | | Graphical user interface, text, application  Description automatically generated  Has all the correct information |
| 16 | | N/A |
| 17 | | N/A |
| 18 | | N/A |
| 19 | | N/A |
| 20 | | N/A |
| 21 | | N/A |
| 22 | | N/A |

### User feedback and robustness testing

In order to do some robustness testing which is finding out how well the website functions, I decided to ask multiple people to test out the website by creating an account, creating a booking or joining a group and testing the website however they want. I thought the testing was a great success as no major flaws were found and those that were pointed out are easily fixable. I got lots of comments on how to improve the system and if I were to carry on with it, I could take on board and use to better the project.

I asked the users to provide feedback on a form I made which I sent round to them for their general experience of using the website. I used Microsoft forms to create the survey. The results are:

**Kai Constantine**

**Graphical user interface, text, application, email

Description automatically generated**

**James Stevenson**

**Graphical user interface, text, application, email

Description automatically generated**

**Matthew Holmes**

**Graphical user interface, text, application, email

Description automatically generated**

**Alex Marshall**

**Graphical user interface, text, application, email

Description automatically generated**

**Ben Willoughby**

**Graphical user interface, text, application, email

Description automatically generated**

## Evaluation of solution

### Reflecting on user feedback

Having gone through and read the feedback the users have given me, I think overall, the results are fair, unbiased and just. In its current state it has done around 70% of what I initially wanted it to do and despite it working it did not meet all of my stakeholder’s requirements stated right at the beginning of the documentation. Although the main attraction and my unique selling point of the text-based game was unfinished the users can see what I have tried to do and think it would be better if I had finished it.

The major issue was the fact it was lacking that game which would have separated it from the rest of the other new online escape rooms that have just entered the market. On top of this I was also unable to make the Arduino contraption I wanted to due to time restraints and the global pandemic. This problem can be solved if had an extra few months to create the text-based game and connect it to the Arduino mechanism that would release the next clue for the escape room.

### Success Criteria

In this section I will have the success criteria defined in my analysis stage and decide whether I have met them or not, the explanation of how I have met them or not met them and the location of the evidence of me meeting them.

|  |  |  |  |
| --- | --- | --- | --- |
| Success Criteria | Met or Not Met | Explanation | Location of evidence |
| User can navigate the website | Met | The user can go to the pages they want to | Beta test 1 |
| User can create an account with their information | Met | On the signup page you can input your details and create an account | Beta test 3 |
| Must be able to input what time and date they want their booking | Met | The user can use the calendar to make a booking | Beta test 8 |
| Must be able to input a code | Met | The user can enter a code on the join a group page | Beta test 13 |
| The user must be able to edit their booking time | Not Met | Did not create this function | N/A |
| Search for other people on the database | Not Met | Did not create this function | N/A |
| Delete people from their group | Not Met | Did not create this function | N/A |
| Way of viewing the booking information | Met | It is on the countdown page once you make the booking | Beta test 15 |
| Who is in the group | Met | It is on the countdown page once you make the booking and others have joined | Beta test 15 |
| Look at available time and dates | Not Met | There was no exact time and date as it was no longer a physical place so people could do it at the same time | N/A |
| All accounts created must be stored on the database | Met | They were all stored permanently on the database under the users table | Beta test 6 |
| Any bookings made must be stored on the database | Met | They were all stored permanently on the database under the Group1 table | Beta test 10 |
| All groups should be stored on the database | Met | They were all stored permanently on the database under the Group1 table | Beta test 10 |
| The database should be secure and be able to withstand any attack | Partially met | The fields had detection to stop some forms of attack but not all | N/A |
| The game must have a time limit to be completed within | Not Met | Game was never completed | N/A |
| Handle illegitimate requests and come back with error messages | Met | If any invalid data was entered, then it would come up with an error | Beta test 2, 5, 14 |
| The Arduino receives the output from the game and releases the clue to continue with the escape room | Not Met | System was not made | N/A |
| All components of the website work properly like the login system and the countdown system | Met | All the components that had been made worked perfectly | All tests |
| Has validation techniques | Met | If there were any blank fields the system would detect that and tell the user to fill it in | Beta test 2 |

### Reflection based off of success criteria and limitations of the system

Having gone through my success criteria again and checking what I have done with what I have not done, I am pleased with the relative success of this project and I am happy with how it turned out. I am relieved I found a way to solve problems that I was panicking about in the beginning on how I was going to solve them, but now it is a functioning website that is aesthetically pleasing that my stakeholder can use for planning an escape room that they are happy with. Majority of my success criteria has been met by my final version; however, a few are unmet and if I had more time, I am going to explain how I would rectify this.

As it stands, the user is unable to change their time of their booking. This was a criterion encase the users became busy and had to change the time of their booking. I did not have time to integrate something like that into my system as it was not of high priority and the main thing that mattered was them actually being able to book. Another area similar to that, that was not met was searching for other people on the database to add to your group. I thought this was unnecessary as people may add random people and it would be better for the user to just give their friends the code. I also did not have enough time to develop deleting users from the group. This was also of low priority.

Another criterion not mat was removing the time and dates that had previously been booked. This was no longer an issue as due to the pandemic it would all be online anyway, so users are able to do it simultaneously instead of being in a physical room removing the need for this.

The points regarding the text-based game and Arduino are unmet due to time constraints on the project. I would have loved to make them and tick them off the list, but I was unable to do so. Despite these being high priority as they are what makes the escape room, they were unable to be completed.

If I had more time and made these additions and edits to the project, both me and my stakeholder would be very happy that all the points were met. However, I am still ecstatic with my website in its current form and all the styling and functionality it has. Throughout the process I have learnt php and improved my SQL drastically since this began. The usage of development models has taught me a lot about time management. And making a project that I will use on future projects to finish on time with all the points met.

### Final version feedback

I went back to my stakeholder Mr Graham for the last time to answer some questions on the project and how it has turned out.

Q: How does the project compare with what you expected at the beginning

A: This version is so close to what I had wanted at the beginning, if there was a game at the end with the Arduino you would have been on the money but with what is there, it is fantastic and love it, but it needs those final elements to really live up to the name of being an online escape room.

Q: Was there anything I left out in the final version

A: The game and the Arduino. That’s it, the rest is all fine and I am very happy with it. Just those final touches.

Q: What developments could be made into the future for this project

A: A game at the end, and then building from that maybe more games nit just text based but other puzzle like games that can be coded and then a whole physical escape room Covid permitting that is fully autonomous and controlled by Arduinos and the person running it just has to change the batteries.

### Possible Future Developments

In the future when I have met all the unmet criteria there are still some more improvements that I think would benefit the website and make it better. .t might be able to compete with omniscape and other online escape rooms that are actually online and not paper that you print off at home.

Firstly, I would add more information onto the homepage to make people more aware of what it is about. This would make it look more professional and make people more likely to use it if they knew what it was about.

Then, I would then find a suitable hosting service for the website with an appropriate URL name. Something that is easily recognisable and not too long. I would most likely use Heroku as it is free and can link direct to my GitHub repository so when I update it, the website will update too giving me less hassle trying to update the website. It also has database functionality so all the accounts can be stored in a secure database.

The final thing I would like to do to in the future to make it better is to add more puzzles to it. Such as once you solve the first one and it open the Arduino box, it sends you to another puzzle. I think it would be very cool if there was an AR element to the game so you can turn your room at home into an escape room as if you were there in real life.

### System Maintenance

This section is all about how website will be maintained in order for it to be successful and what the future may do to it in terms of updates and upgrades.

The most prominent area I can see needing to be maintained is the booking and accounts. If it takes off there will be a point where there is lots of bookings that have already happened and need deleting. This needs to be removed from the database, so it doesn’t use up lots of server and database storage. It will also need removing inactive accounts as this also uses up precious server and database space. This can be done by an expert hired by my stakeholder to maintain the system.

The other thing that could be done for system maintenance is how it is going to be updated and upgraded. My stakeholder can get someone to look after the actual code of the website. The upgrades can range from changing the UI or adding the text-based game and other features. An upgrade could be to use a hosting service with inbuilt server and database systems that have support. This then leaves my stakeholder free to play with the old version and when they are happy with whatever developments they can upload to the hosting service.