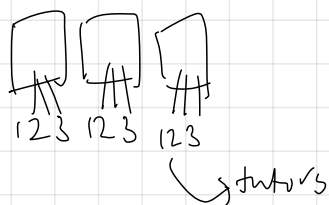
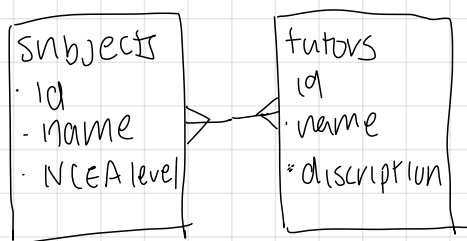
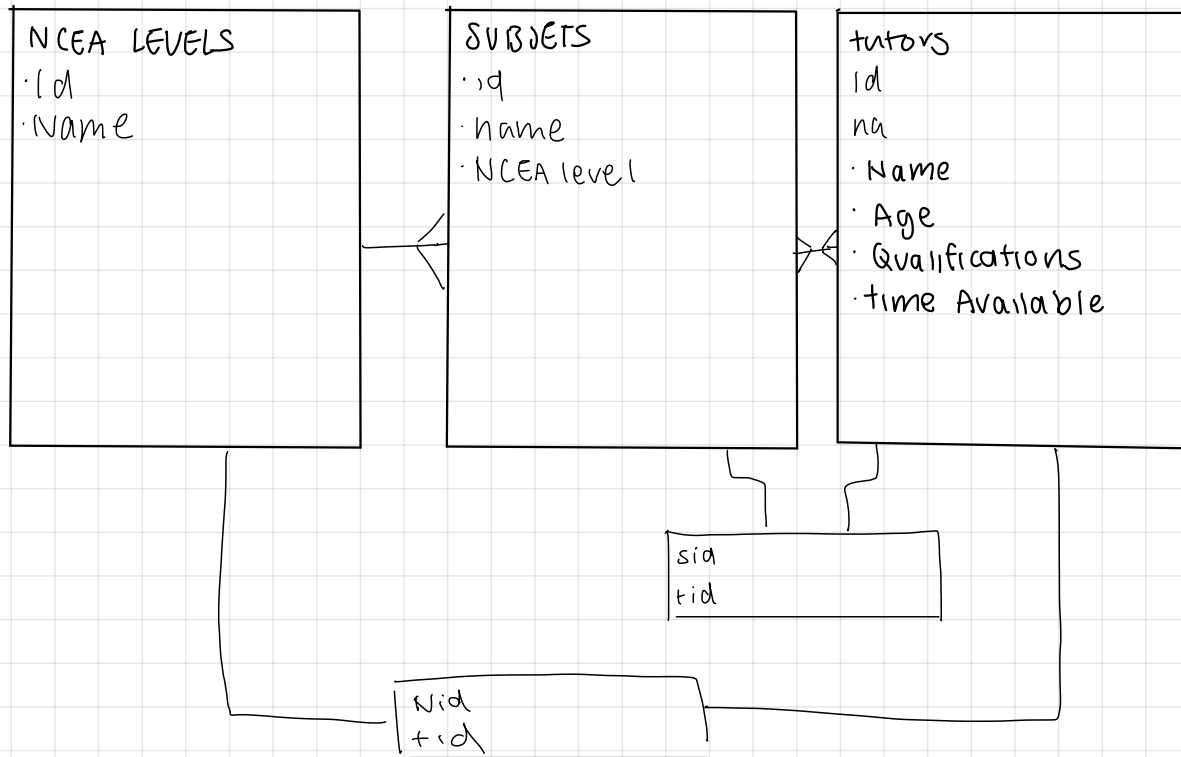


Database notes and design

(NCEA levels } one
subjects } many

tutors — Name
 — Age
 — Available times



This was the initial rough ER diagram I drew for this project. I soon realised that it was impractical and the box for NCEA levels was unnecessary.

What is your project about, who is it for, what does it do.

Tutoring Services: A website where high school students who study any NCEA levels from 1-3 can find student tutors within the same school that can help them with their subjects.

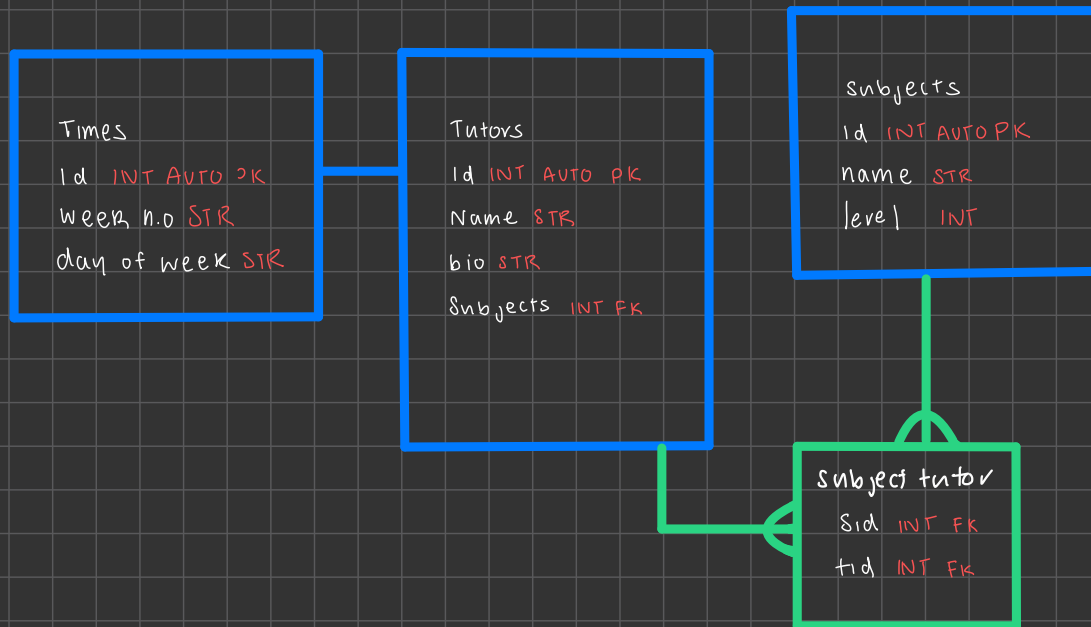
This website will allow students and tutors to plan a time that works for both of them and will also allow students to have control over who their tutor is.

Database notes & design:

1 tutor = multiple subjects & year levels. *(1, 2, 3 or scholarship)

subject = 4 different year levels & multiple tutors
(some are only in some year levels)

year levels = multiple tutors & subjects.



Website layout and Design

General colour scheme



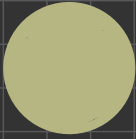
083F63



2866E



769885



B58682

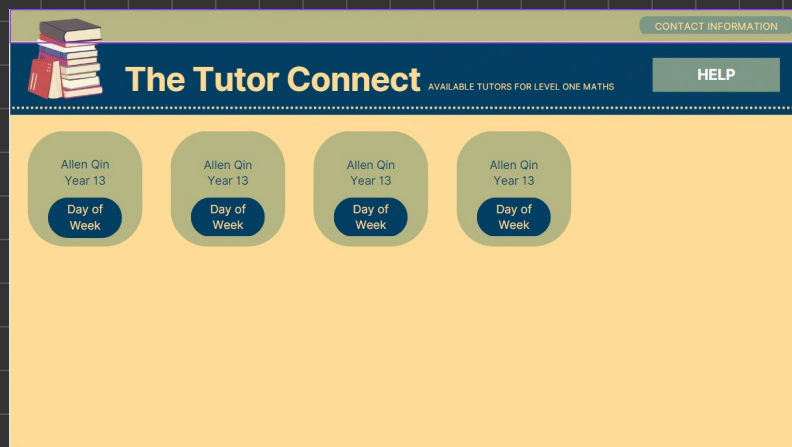
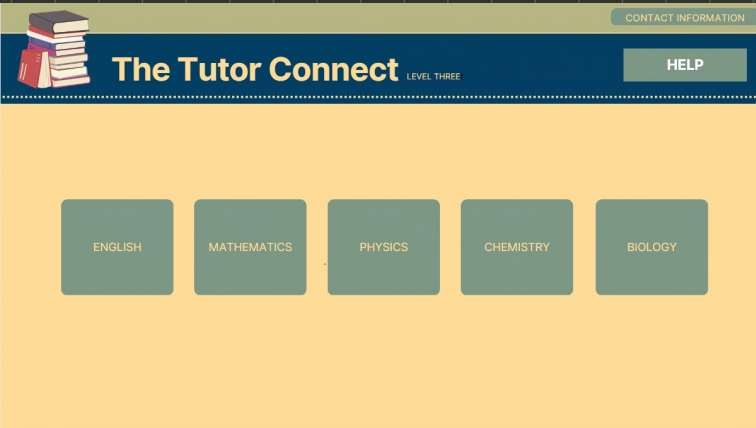
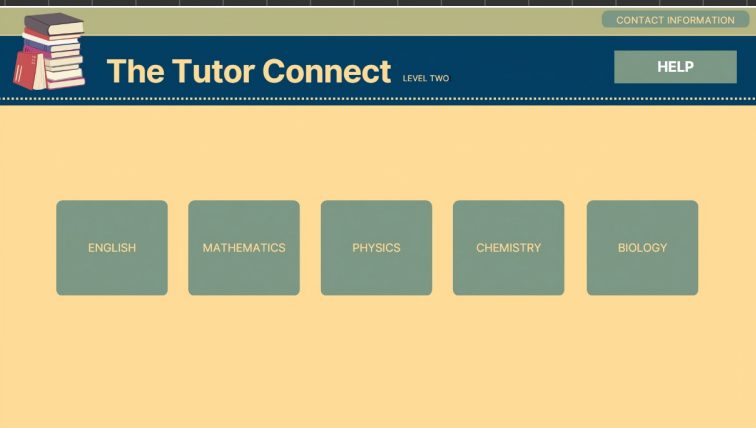
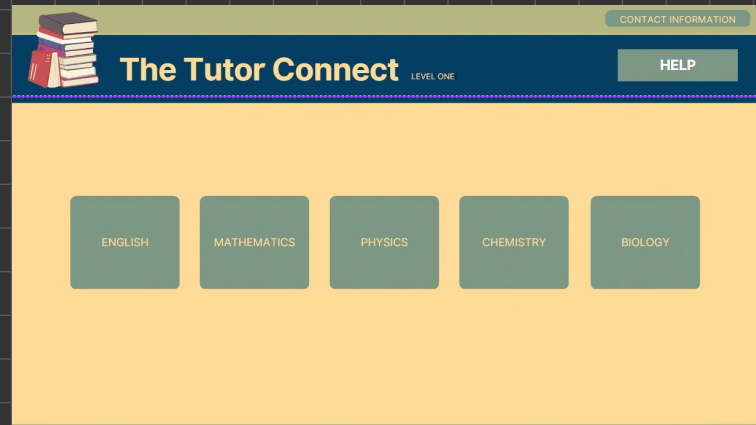
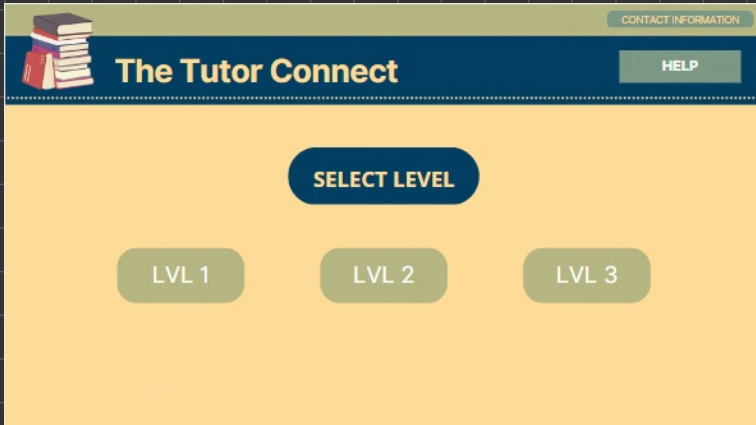


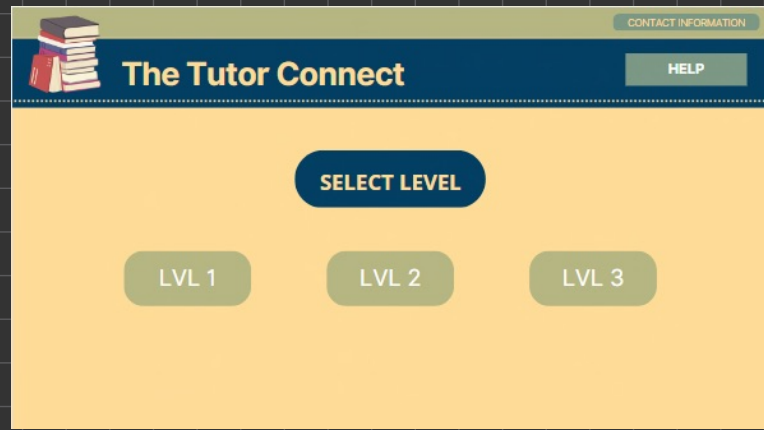
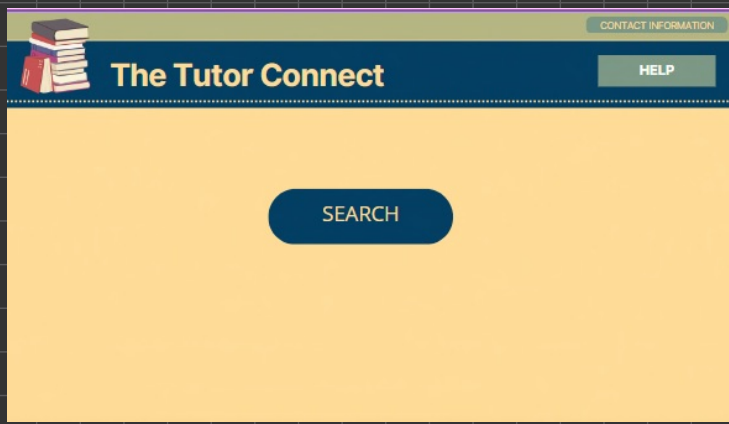
FEDC97

Fonts

Inter

Website layout





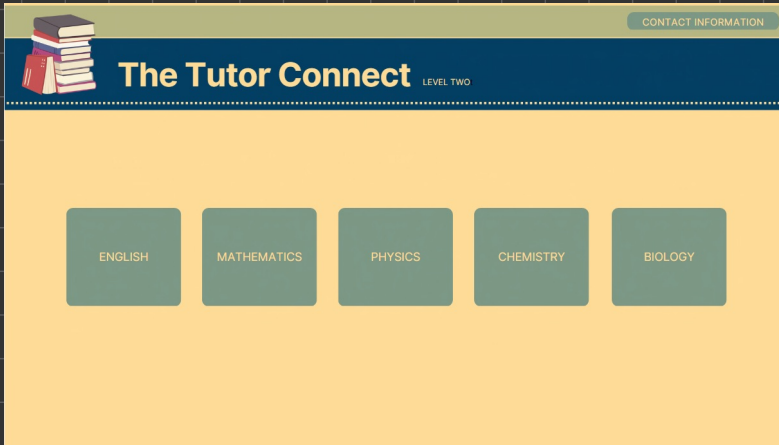
I was debating between these two home pages and after consideration, decided to go with the second option as I thought it would be easier to code.

Routes / function signatures for each page



```
@app.route('/')
```

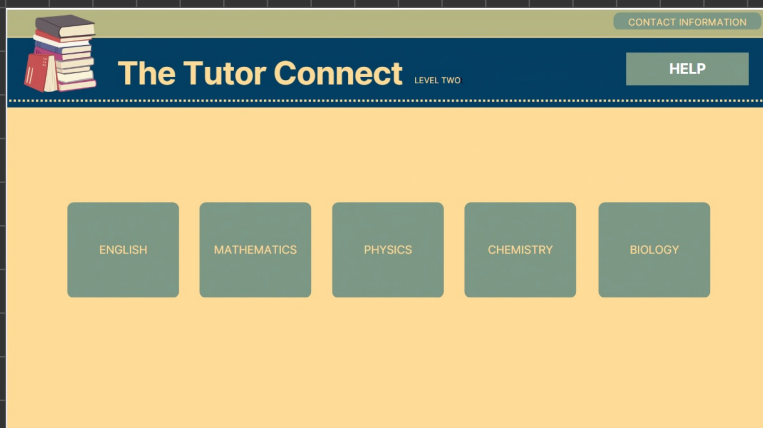
```
def home():
```



```
@app.route('/Levelone')
```

```
def Levelone():
```

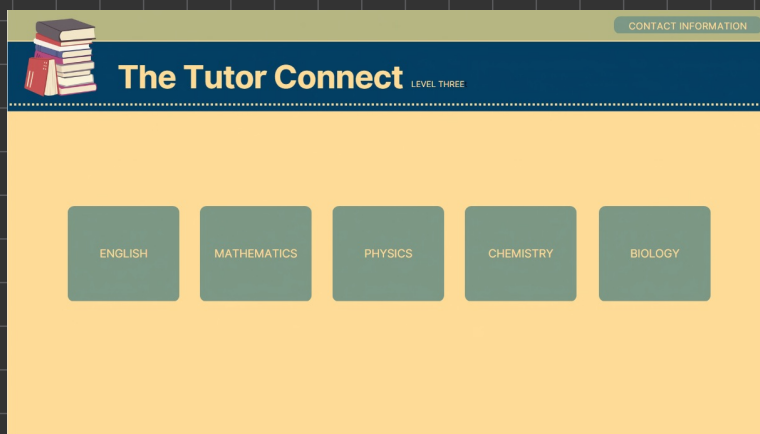
```
SELECT name FROM subjects WHERE  
Level = 1
```



```
@app.route('/Leveltwo')
```

```
def Leveltwo():
```

```
SELECT name FROM subjects WHERE  
Level = 2
```



```
@app.route('/Levelthree')
```

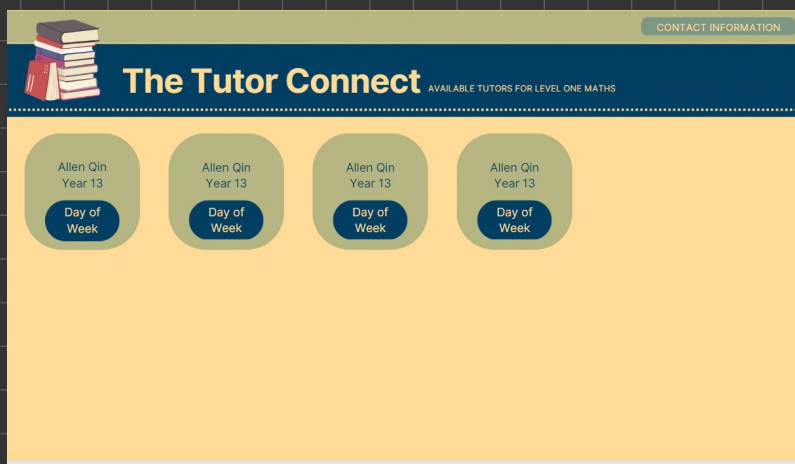
```
def Levelthree():
```

```
SELECT name FROM subjects WHERE  
Level = 3
```

```
SELECT name FROM  
subject WHERE  
level = Level
```

```
@app.route('/level/<int: level>')  
def show_level(level):  
    if level < 1 or level > 3  
        abort(404)
```

This was repetitive
and inefficient
therefore I can
change it into



```
def Tutors():
```

```
SELECT name, bio, subjects FROM  
Tutors WHERE subject = 1
```

```
SELECT subjectsname FROM tutor WHERE  
bioid IN (SELECT tid FROM subject tutor  
WHERE sid = (SELECT id FROM subject  
WHERE UPPER(name) = "Maths1"))
```

```
SELECT week.no, day of week, FROM  
times WHERE id IN (SELECT tid FROM  
tutors WHERE UPPER(name) = "Allen Qin")
```

```
@app.route('/Tutors / <str: Subject>')
```

JUSTIFICATION

I deliberately chose these contrasting colours as my target audience is high school students looking for a tutor as efficiently as possible. The contrasting colours allow for the student to quickly identify the buttons. These colours have very low saturation which makes it easy on the eyes and helps the student quickly find what they are looking for.

After showing Allen Qin, a student who I know that has an interest in tutoring services, I received his feedback and he states "That it is pleasing to the eye yet there is a lot of empty space that could be utilised.". He also notes that the tutoring services should help with other subjects other than the main five.

The scientific research behind my design choices can be found in Nielsen's Heuristics. User control and freedom is shown in my design by the large heading acting as a home button and allowing the user to move freely back to the original page. An aesthetic and minimalist design is also achieved by the use of minimal words and lack of buttons. It is also achieved through only using a set number of colours for every element.

This website design is based on the accepted best practice of placing a title in the top left corner along with a banner/bar over the top. Contact information is also placed within the top banner and the contents of the page below this banner. This design is the same on all the pages and only the contents change

