

A LEVEL

Exemplar Candidate Work

COMPUTER SCIENCE

H446

For first teaching in 2015

**H446/03 Summer 2017
examination series
Set C – Medium**

Version 1

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Introduction

These exemplar answers have been chosen from the summer 2017 examination series.

OCR is open to a wide variety of approaches and all answers are considered on their merits. These exemplars, therefore, should not be seen as the only way to answer questions but do illustrate how the mark scheme has been applied.

Please always refer to the specification (<http://www.ocr.org.uk/Images/170844-specification-accredited-a-level-gce-computer-science-h446.pdf>) for full details of the assessment for this qualification. These exemplar answers should also be read in conjunction with the sample assessment materials and the June 2017 Examiners' Report to Centres available on the OCR website <http://www.ocr.org.uk/qualifications/>.

The question paper, mark scheme and any resource booklet(s) will be available on the OCR website from summer 2018. Until then, they are available on OCR Interchange (school exams officers will have a login for this).

It is important to note that approaches to question setting and marking will remain consistent. At the same time OCR reviews all its qualifications annually and may make small adjustments to improve the performance of its assessments. We will let you know of any substantive changes.

Exemplar 8 – Set C (Medium)

Programming project (non exam assessment)

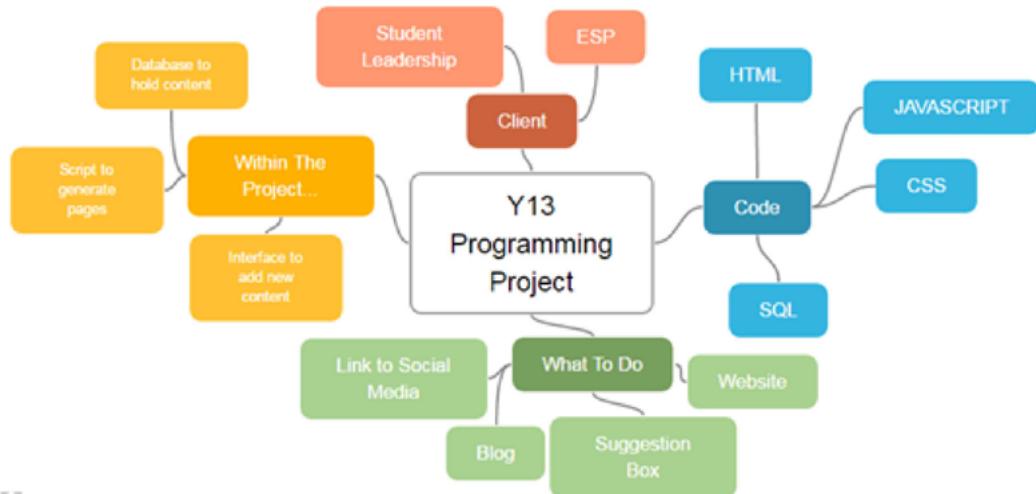
Learners will be expected to analyse, design, develop, test, evaluate and document a program written in a suitable programming language.

A2 Computing - Component 3 - Programming Project

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3.1 Analysis of the Problem



3.1.1 Problem Identification

For my project I will be aiming to create a website for the school's student leadership, this will include a back ended database. The website will display meeting dates for each committee and what will be discussed (the agenda), a record of attendance to meetings and a general view of each committee within the student leadership. The general review of each committee will be organised in a blog style with dates and times of each post. These will be approved by an administrator using a Boolean value of false and then true when approved. My website will also include polls and questionnaires for the rest of the school to respond to and provide us with feedback, this also adds complexity to the programming of this project and I could make this to automatically update responses. There will be a login so that only specific people can make changes and updates to pages, only given access to admins. This will need to be linked between SQL and HTML via PHP so that any updates will then be made visible to students and target users. I could also include a slideshow of images of recent achievements for each of the committees.

I hope to that through this website students and teachers can easily learn about student leadership and the committees and get their questions answered (via a query/suggestion area). The query/suggestion area will ask for name, year group, committee of contact and their suggestion or question. These responses will be added to a database and to make it easier to search the responses the committee contact will be a dropdown box. This will allow responses to be directed to the correct people/committees. It allows opportunity to tell people about who the Student Leadership Team (SLT) are and what we are doing. Having a website is also a great way to increase attendance at meetings and get more people involved an objective that Mr E Spiers has for the new school year. It will reach a wider audience than if we were to put posters up around school and can be accessed anywhere, anytime; this is why a computational method would be applicable to this project.

3.1.2 Stakeholders

I will be creating this website for the head of student leadership, Mr E Spiers at the John of Gaunt School, Trowbridge. He has many roles around the school including Assistant Head teacher and head of careers education. He is passionate about leadership roles around the school and giving all years' responsibility, this includes the Student Leadership Team. This website would be a benefit to him in that it will make his role easier in the management of student leadership and provide him the ability to easily view and edit the progress of this group. Once a website is designed, you can keep it up-to-date to be relevant to the group.

The target user(s) will be the students within the school as well as their parents, teachers and the public. The website will be mainly targeted at students in order to get them to join the committees and take more of an active role in the leadership/running of the school. The poll section will allow them to provide their thoughts as well as a query/suggestion area. This will differ to how parents and teachers may use it. It will allow teachers and parents to have a look at what the school offers for extra-curricular and how the school encourages the involvement of students within the school system. They too can also leave comments and suggestions about how their children could get involved.

3.1.3 Research the Problem

I will interview my client Mr E Spiers with a primary survey in order to gather basic criteria of what he wants this programme/website to do and resolve any problems he currently has. By interviewing him rather than giving him a survey to fill in I can hear it in his own words and find out directly what will be needed. It will also allow me to gain a better understanding of how (if any) current systems of sharing information are used and work. I will also create a secondary survey to send out to the Student Leadership Team to see what they would like from this new system. This will include asking them what the webpages should appear like and if they think that, a polling area and suggestion box would be a useful function of the website/programme. I will not interview them due to the time and access to students, which would prove difficult in this situation.

Primary Survey: to find out what the client wants from the new system.

| Question | Response |
|---|--|
| <i>What layout would you want information to be displayed within? (A game layout, app, website, program etc.)</i> | Website, blog but able to easily do surveys or take opinions. |
| <i>What is the purpose of this program?</i> | Share the work the Student Leaders are doing, promote good news stories, recruit new SLs, get students voices. |
| <i>What key functions do you want the program to perform? What key features are needed?</i> | Calendar, pics, news, sign up page, possibly email alerts, polling/questionnaires would be great. |
| <i>Would it benefit from a polling page or questionnaires?</i> | Yes. |
| <i>Is there any current systems that do similar functions as described above?</i> | WordPress does a lot of the blog side that was set up by a student in the summer. The blog with a bit of Google Forms or survey monkey would be good. I am currently using a variety of programs but having it all in one place would be good. |
| <i>Who should/would have access to the information?</i> | Anybody, students, staff, parents, prospective parents. |
| <i>Should there be a login page?</i> | Yes, but not to view. Perhaps a comments or ideas section for any student to use as a feedback or ideas 'box', so they don't have to log in. |
| <i>Should changes only be made by admins?</i> | Yes |
| <i>How will the program benefit students?</i> | - |
| <i>Is there any specific layout or design you want? (Colour, text etc.)</i> | To fit/match/complement the school website. |
| <i>Do you have regular access to a computer or laptop?</i> | Yes, I am provided with one being in my role. |

| | |
|---|--|
| How much IT experience do you have at present, in particular with using websites and online forms/surveys? | I am quite happy using the internet and online forms for communicating information and providing feedback. |
|---|--|

Secondary Survey: to find out what the users want from the new system.

| Question | Response |
|--|--|
| What key functions do you want the website to perform? What key features would be needed? | Polls and Questionnaires, Pictures from events, meeting dates |
| Would it benefit from a polling page or questionnaires? | Yes, all done through the same thing then with easy access, don't have to send through emails |
| Who should/would have access to the information on the website? | The Student Leadership team are the ones who can make the polls but everyone should be able to access/look at it |
| How do you want the program to benefit you? | - |
| Is there any specific layout or design you would like to see? (Colour, text etc.) | Match the school website, easy layout |
| Do you have regular access to a computer or laptop? | There is computer access around the school; the library is open for use at breaks and lunches. There is also a tutor computing session once a fortnight. |
| How much IT experience (does the Student Leadership team) do you have at present, in particular with using websites and online forms/surveys? | All are comfortable with using the internet and most have used online forms and surveys. |

From conducting an interview and survey I have found that the key features of the computational system that I will be creating are going to be a poll/questionnaire page (where students can give constant feedback to the committees and staff), a calendar, pictures and updates of what each committee is doing (committee pages) and lastly a login page. The login page will allow current members of the committees and the student leadership team to create appropriate polls and questionnaires to meet their needs, for example the social and welfare committee creating a mental health survey.

Having polls and questionnaires online (computerised) for the students to answer comes with many benefits. Response time is almost instant and you do not have to wait for paper copies to be returned. By the use of the online database to record the results of the online poll or questionnaire, results are ready to be analysed at any time. Online surveys are a great option for those who would like to conduct their own research – they are less time consuming, they are cheaper, you get the results faster, and you can transfer and use the data in various applications to answer important questions.

My programme could be created in alternative way such as a mobile application. However, this can come with disadvantages. The limited size of the screen and limited amount of storage for data could be a cause for problems such as data overflow. Another way the programme could be displayed is via a blog. A blog has advantages including the fact that it will often allow users to both submit comments and receive future updates. It is also good for those who do not have as much confidence in coding as does not often require this. Blogs do also come with their disadvantages including the ability to leave inappropriate comments; through the program I will be creating, I can view comments before them being posted on the website.

Potential limitations of designing a website could include layout and design. The design must comply with as many browsers as possible, along with having a mobile-friendly display. The more compatible the site, the more people the website can reach. The text of the site can be a limiting design feature. Not every computer has the ability to display every font, if the font chosen is not available for the viewer, an alternative will be displayed.

3.1.4 Specify the Proposed Solution

For both the user and administrator there will need to be a constant and stable connection to the internet (broadband, 3G or 4G) in order to allow them to view the page and have access to the data stored in the database.

| User Minimum System Requirements (Google Chrome) | |
|--|--|
| Processor | Intel Pentium 4 processor or later that's SSE2 capable |
| • Windows 7, Windows 8, Windows 8.1, Windows 10 or later | |

Regarding peripherals, the user will require a mouse in order to navigate between different web pages. They will need an input device, such as a keyboard, to allow the user to type in new survey information and leave any questions/queries or suggestions in the form on the homepage. Lastly, a monitor to display the forms required to create a new survey and general software.

| Aesthetics | Requirements | How is it measureable? |
|-------------------|--|-------------------------------|
| 1 | Font size is large enough and easily readable by users (students, staff & parents) | Feedback from user review |
| 2 | Complement the school website through colour and font choice | Feedback from user review |
| 3 | All pages will include the school logo | --- |

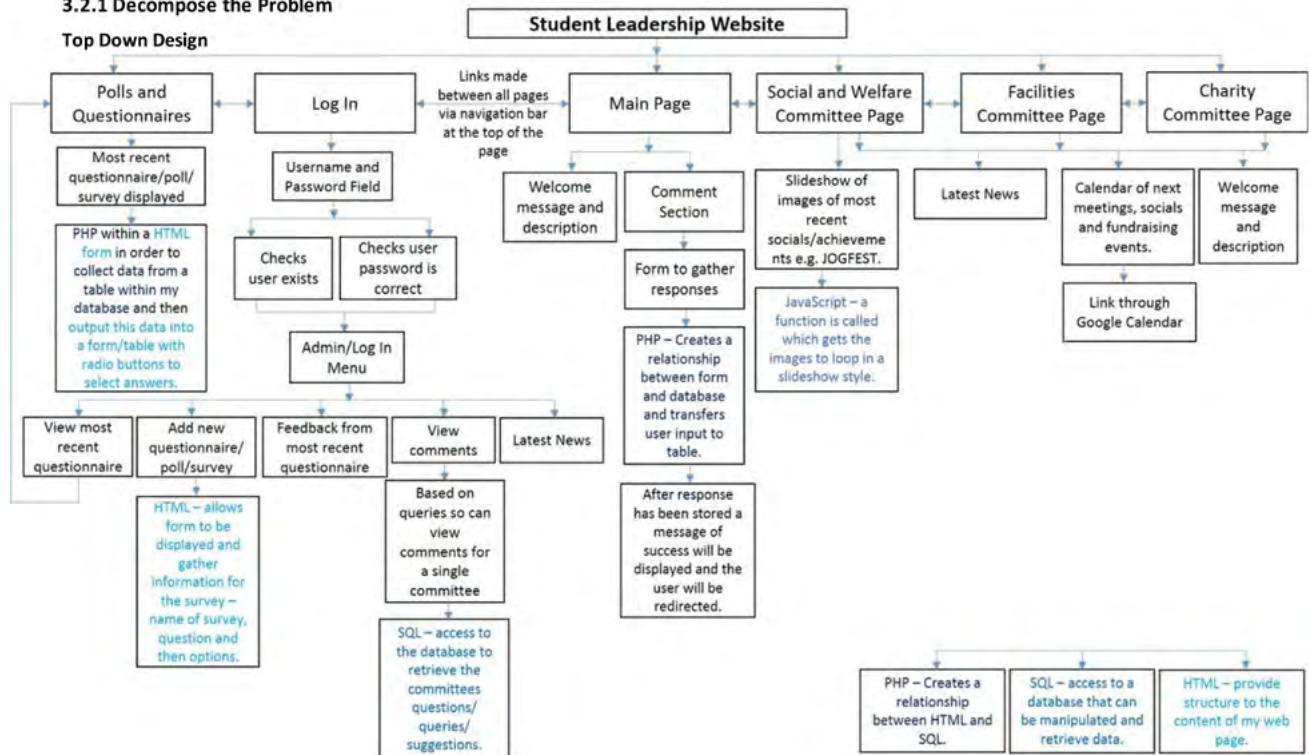
| Inputs | Requirements | How is it measureable? |
|---------------|--|--|
| 1 | Each member of the SLT will input a username and password that will be checked | Will be a true or false value, measured in testing |
| 2 | Allows users to answer the poll | Measured in testing |
| 3 | Students questions and queries will be taken from the form on the homepage | Measured in testing and user feedback |

| Outputs | Requirements | How is it measureable? |
|----------------|---|---------------------------------|
| 1 | Once users have submitted the form a message will be displayed and then they will be redirected | White box testing |
| 2 | News stories will be seen by users on committee pages | User Feedback/White Box Testing |
| 3 | Data of polls will be recalled from the database | Measured in Testing |

3.2 Design of the Solution

3.2.1 Decompose the Problem

Top Down Design



To start I will need to create a homepage that will contain the links to the other pages and login. This will briefly describe the Student Leadership and show a timeline of events or calendar for upcoming meetings. It will also include a comment section that will allow us to gather Student responses and these will be stored in a database so we can access them later. On the committee pages, there will be a brief description and calendar like the home page but there will also be a section of the latest news for that committee, this may be accompanied with a slideshow of images.

The polls and questionnaire page will allow users to answer questions that the Student Leadership Team have, for example, there may be a poll to answer about mental health. The results to these polls and surveys will be stored in a database so, when logged in, a member of the Student Leadership Team can view the results and use them to improve the school.

The log in section of my website is for members of the Student Leadership only; there will be a username and password field for this restricted access. This section will help improve the maintainability of my program and allow them to see results from the polls and questionnaire. It also allows them to create the polls in the first place as well as creating the latest news articles. Which will be stored (written) and then accessed (get and read) from the database.

| Staff/Student Login Is the user logged in? | Adding a New Poll/Questionnaire Is the user logged in? |
|---|--|
| <p>Yes: message to the user to say they are logged in successfully</p> <p>No: message to ask the user to log in.</p> <p>User enters their username and password, a connection to the database checks the Log_In table. If they are an authorised user access is allowed otherwise denied and restricted access.</p> | <p>Yes: User can start to form the survey by entering appropriate information into the form</p> <p>The user creates the survey through text boxes and submits the form data using the submit poll button at the bottom of the page. A connection to the database is made and information submitted is inserted into the table and assigned an ID number.</p> <p>A message is displayed to the user to confirm that their survey has been submitted.</p> <p>No: The user cannot access this page and a message is displayed</p> |

3.2.2 Describe the Solution

The Structure of the Solution

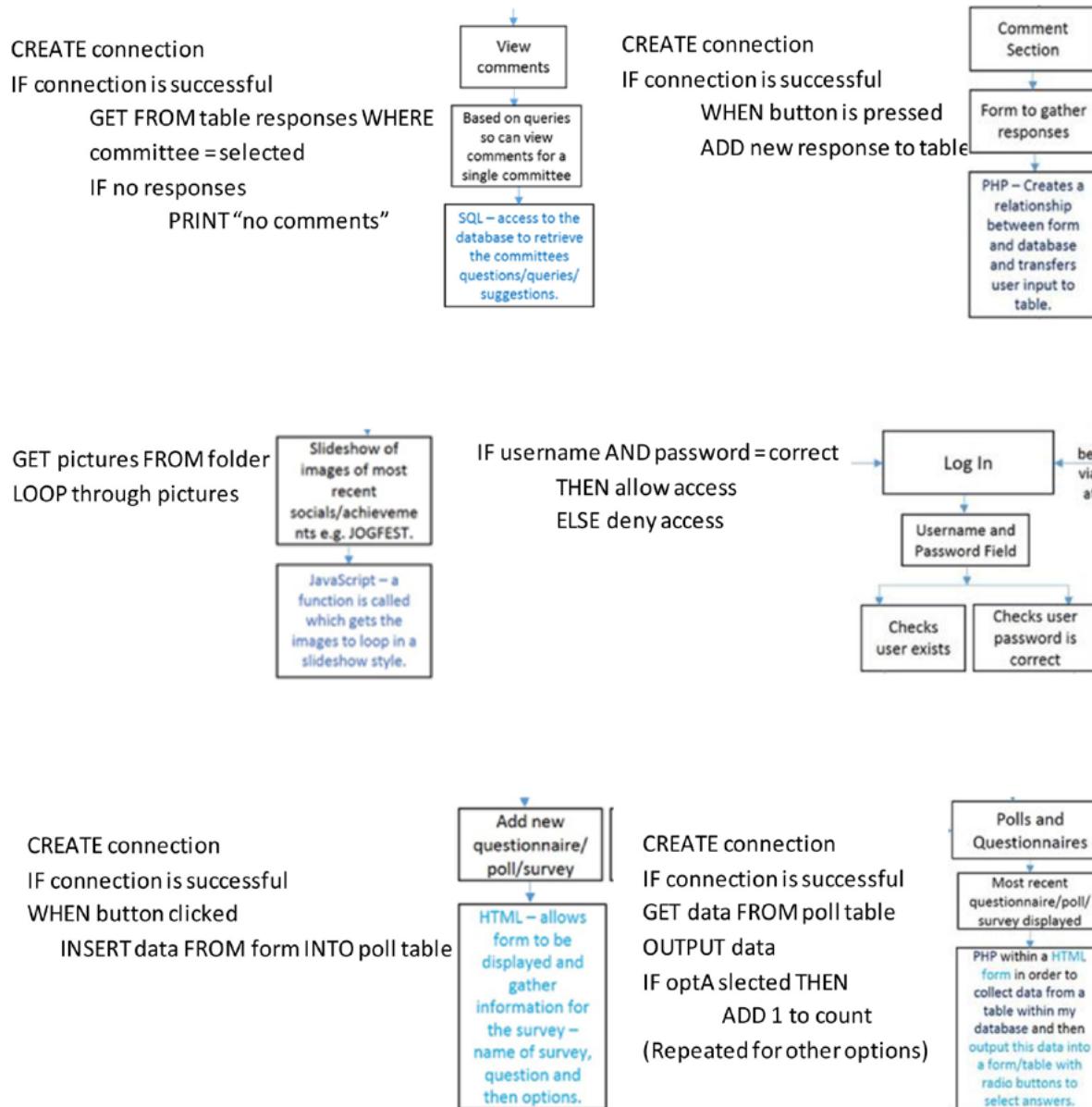
The software I will be using is Dreamweaver as this is a great web development tool and allows you to have constant vision of what the web page looks like whilst coding. I will be using HTML, JavaScript, CSS, SQL and PHP as these languages are capable of achieving the objectives of the programme. PHP will allow communication between HTML and SQL (database). HTML will allow content to be displayed on a web page and will store images and text. Within HTML, I will be linking an external CSS file to alter the presentation of HTML. The preference to separate the content from the style of the webpage will allow me to make easy changes without having to redo chunks of code and messing the programming up. To add a level of user interactivity into my website I may also use JavaScript which will allow pop up boxes and buttons which may open up other web pages or confirm submissions made etc. The combination of five different programming languages will develop the complexity of the program.

A website with database connectivity will allow storage of user account details. This would allow the Student Leadership Team to login and add and edit polls and questionnaires as required, using an online form, which connects to the database. The polls are there for students to answer, with some information only visible to logged in members if required. Students and staff could search the database and results could be displayed,

which match the search criteria, meaning that the results are relevant to the viewer. The database would only need to be directly accessed for maintenance purposes, for example adding new fields or user accounts.

In order to create a website, access to Internet connection is vital. This allows transfer of files that will make up the website to the online server that will be hosting the website and look at the website live online to make sure that it is displaying correctly.

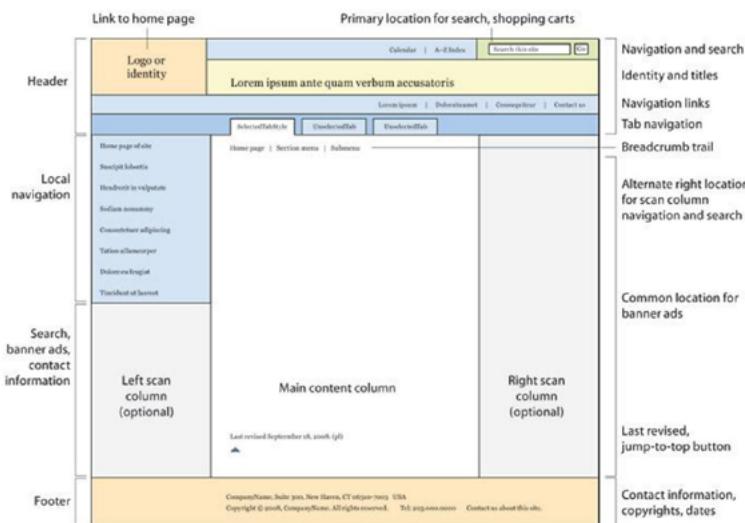
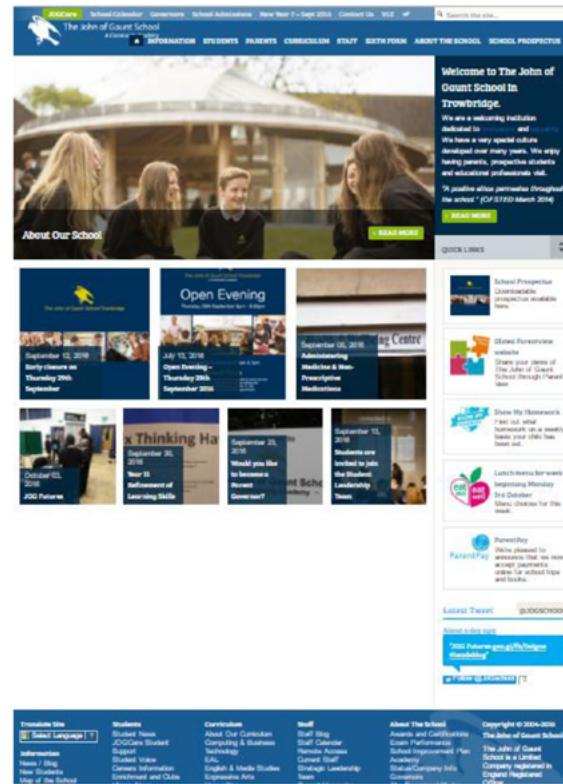
Algorithms formed from my Top Down Design



Usability Features and Interface Designs

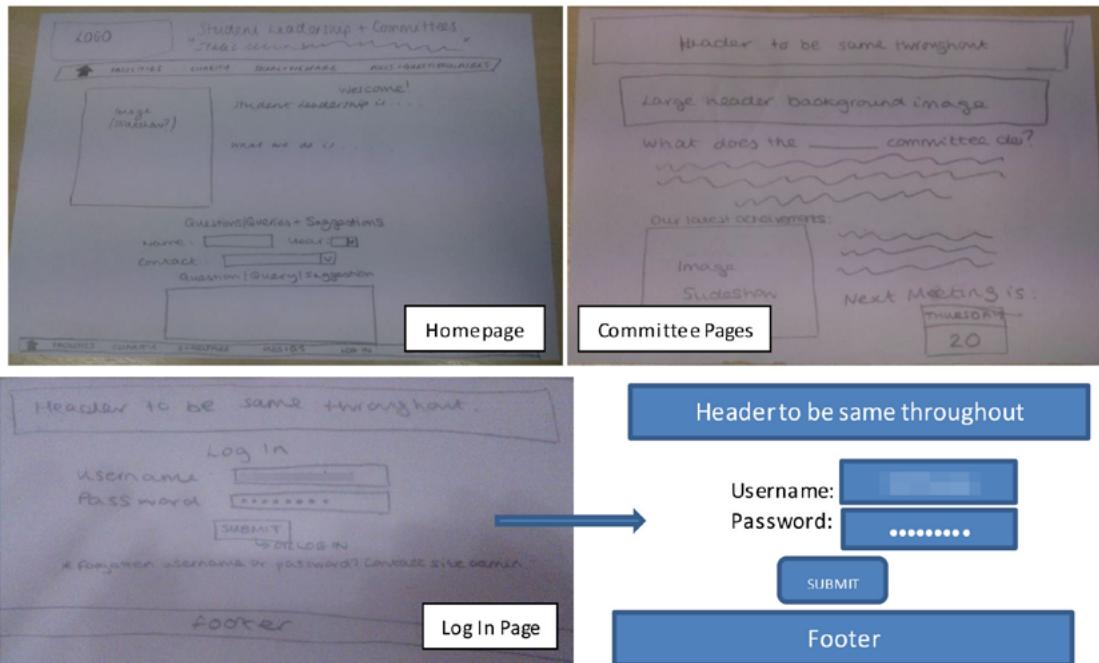
My website needs to “fit/match/complement the school website” as mentioned by my client. Looking at the school website there is a number of key features that I will aim to include in my website. These include:

- Colours** - the website uses blue tones for backgrounds and white text. Some buttons are in green.
- Images** – a slideshow of images is shown on the home screen, which is also used as navigation, images focusing on student life rather than facilities and staff. Logo in top left corner in white to compliment text used throughout. Images to highlight latest news, act as hyperlinks to.
- Layout** - (working down the page) navigation bar at top of page for basic go to pages. Welcome message/introduction to the website and school. Latest news in middle of page – focus, other useful links to the side of the page. Page footer containing all navigation links and other elements that need to be put on the page but out of the way, for example the contact details and copyright statement.
- The website follows a common structure (a canonical page design):



My homepage should be a correct balance between identity, navigation, content and aesthetics and be kept simple. There should be a header, navigation bar and a slideshow or feature picture. For those who are new to the site and unaware of what Student Leadership is a header tag line will become a crucial explanation ('It doesn't matter whether you are in Year 7 or Year 13, your ideas and input are valued. Your voice matters').

My first drafts of proposed interface designs



The home page will welcome visitors to the site and provide information about what Student Leadership is and allows visitors to leave their suggestions, ideas, questions and queries via the form that is easily visible to visitors to the website.

The login page will allow authorised users to access the 'admin' only areas of the system. They must enter their username and password and this is verified against the ones stored in the Log_In database, once a connection has been established. If they are valid, then the user is granted access and a message is shown to say they are now logged in. If username or password is incorrect, a message is also displayed to let them know that they entered incorrect information and they are redirected to try again. Once logged in the user will have access to viewing comments left by visitors as well as adding a new poll and update latest news stories for the committees.

Variables, Data Structures and Classes

| Student_Questions_and_Questions | | | | | |
|---------------------------------|--------------------|----------|-----------|-------------------|--------------------------------------|
| Field Name | userID | name | yeargroup | committeeccontact | question |
| Field Type | AUTO_INCREMENT INT | TINYTEXT | INT | TINYTEXT | VARCHAR |
| Field Size | 3 | - | 3 | - | 255 |
| Example Data | 1 | Mollie | 13 | Charity Committee | When is your next fundraising event? |

| # | Name | Type | Collation | Attributes | Null | Default | Extra | Action |
|---|-------------------|--------------|-----------------|------------|------|---------|----------------|---|
| 1 | name | tinytext | utf8_unicode_ci | | No | None | | Change Drop Browse distinct values Primary |
| 2 | yeargroup | int(3) | | | No | None | | Change Drop Browse distinct values Primary |
| 3 | committeeccontact | tinytext | utf8_unicode_ci | | No | None | | Change Drop Browse distinct values Primary |
| 4 | question | varchar(255) | utf8_unicode_ci | | No | None | | Change Drop Browse distinct values Primary |
| 5 | userID | int(3) | | | No | None | AUTO_INCREMENT | Change Drop Browse distinct values Primary |

| Create_Poll | | | | | | |
|--------------|--------------------|--|----------------------|-----------|---------|---------|
| Field Name | pollID | name | q | optA | optB | optC |
| Field Type | AUTO_INCREMENT INT | VARCHAR | VARCHAR | VARCHAR | VARCHAR | VARCHAR |
| Field Size | 3 | 255 | 255 | 255 | 255 | 255 |
| Example Data | 1 | What charities do you want to support? | What global charity? | Red Cross | UNICEF | NSPCC |

| # | Name | Type | Collation | Attributes | Null | Default | Extra | Action |
|---|--------|--------------|-----------------|------------|------|---------|----------------|--------|
| 1 | pollID | int(3) | | | No | None | AUTO_INCREMENT | |
| 2 | name | varchar(255) | utf8_unicode_ci | | No | None | | |
| 3 | q1 | varchar(255) | utf8_unicode_ci | | No | None | | |
| 4 | optA | varchar(255) | utf8_unicode_ci | | No | None | | |
| 5 | optB | varchar(255) | utf8_unicode_ci | | No | None | | |
| 6 | optC | varchar(255) | utf8_unicode_ci | | No | None | | |

This table was updated to hold response rate for each option. This proved easier than adding a completely new table, especially as this information is related to the data already with Create_Poll.

| Create_Poll | | | |
|--------------|-----------|-----------|-----------|
| Field Name | ResponseA | ResponseB | ResponseC |
| Field Type | INT | INT | INT |
| Field Size | 3 | 3 | 3 |
| Example Data | 1 | 1 | 1 |

| Latest_News | | | | | | |
|--------------|--------------------|------------------------------|---------|---------------------------|-------------------------------------|-------------------------------|
| Field Name | NewsID | contact | title | quote | description | description2 |
| Field Type | AUTO_INCREMENT INT | VARCHAR | VARCHAR | VARCHAR | VARCHAR | VARCHAR |
| Field Size | 3 | 255 | 255 | 255 | 800 | 800 |
| Example Data | 1 | Social and Welfare Committee | JOGFEST | It was a fun night and... | Jog Fest was a great opportunity... | Attendees enjoyed a DJ set... |

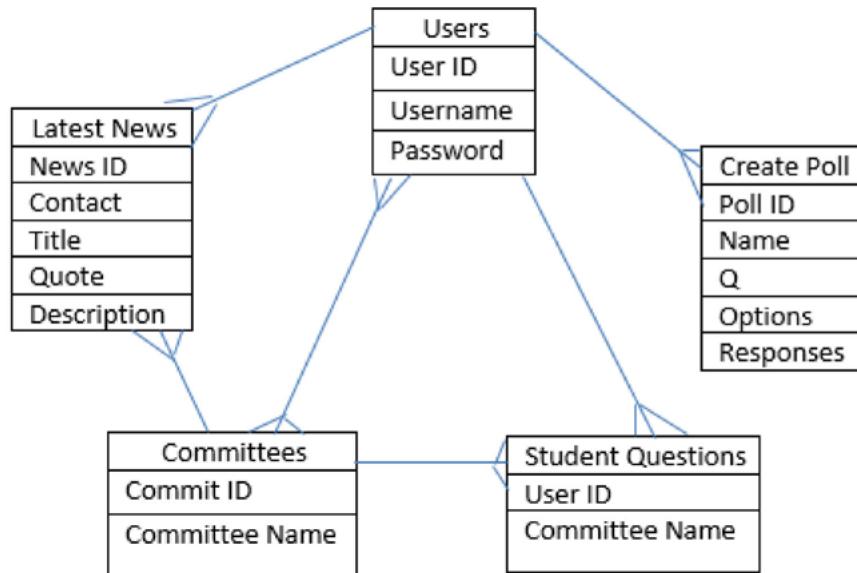
| # | Name | Type | Collation | Attributes | Null | Default | Extra |
|---|--------------|--------------|-----------------|------------|------|---------|----------------|
| 1 | contact | varchar(255) | utf8_unicode_ci | | No | None | |
| 2 | title | varchar(255) | utf8_unicode_ci | | No | None | |
| 3 | quote | varchar(255) | utf8_unicode_ci | | No | None | |
| 4 | description | varchar(800) | utf8_unicode_ci | | No | None | |
| 5 | description2 | varchar(800) | utf8_unicode_ci | | No | None | |
| 6 | NewsID | int(3) | | | No | None | AUTO_INCREMENT |

Drop Down Box Data

There will be 2 drop down boxes on the homepage of my website (within the question/query/suggestion form) and the table below shows the data that will be listed within each.

| Year Group | Who needs to be contacted? |
|------------|--|
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| 11 | |
| 12 | |
| 13 | |
| 0 | Facilities Committee Charity Committee Social and Welfare Committee Student Leadership Admin |

Entity Relationship Diagram



3.2.3 Describe the Approach to Testing

| What am I testing? | What should happen? |
|---|--|
| I am testing that each of my pages load successfully when opened. | The page (charity.php etc.) should load. |
| I am testing that my links at the top of each page are working and take the user to the correct page. | When the link is pressed, it should take the user to the appropriate page. |
| The display of elements in forms. | Elements such as a text field should be displayed and allow use. (Check boxes work). |
| That my website can be viewed online through a domain name. | Webpage should become visible to anyone, use of link. |

| | |
|--|--|
| A log in page will take Username and Password. | Can enter username and password, password should be displayed as **** |
| That the username and password are correct. | Output that username and password are correct |
| That the survey information entered can be displayed in a user-friendly way to be answered | The most recent survey should be displayed (question and choice of answers) |
| That the survey will be displayed in a user friendly way and an answer can be selected. | The answers should be displayed in a table format with a radio buttons to select answer. |
| The submit answers button will appear and the survey appears in a professional looking format. | The submit answers button should be displayed and the survey appears in a professional looking format. |
| Google Calendar displays on page with meeting dates | Google calendar is displayed and meetings can be clicked on for more information. |
| The address of the school is linked to google maps so users can see location. | Google maps opens up in another tab, zoomed in on location of the school. |
| Student's results to a survey are added to the database. Need to find what radio button has been selected? | The radio button the user selected will be outputted to the screen. |
| Student's results to a survey are added to the database. Increment value of response each time it is selected. | The column ResponseA, B or C will increment by 1 each time the value is selected. |
| Results to the surveys are displayed with how many votes have been for each option. | The amount of votes for each option per question will be displayed. |

3.3 Developing the Solution

To begin with, I went and created the basis of each webpage and how I wanted it to look (it needed to fit in with the current school website). Due to amount of repeated code on each of the webpages, I set up a page template (with an editable region) and applied it across each of the pages. This also allows me to keep uniformity in the aesthetics of the webpages, keeping it professional.

Down to the idea that I will include a database to hold data entered through the webpage I needed to alter the pages from the html format they were currently in. I changed them to PHP, a language that would allow the interactivity and create a relationship between the html of my webpages and the SQL language used in the database.

My next step was to start creating the basis of what I wanted on my home page. This included having a comment section for students to provide general feedback and suggestions. To take these responses I needed to create a form.

```

<h1>Welcome! </h1>
<p class="mytitleStyle">
<span class="myparaStyle">
<!--Allows two images to be in the body of my page with text aligned between them-->


</span>
What is Student Leadership? What do we do?</p>
<!-- Introduction to website -->
<p class="myparaStyle">The Student Leadership Team is made up of three committees (facilities,charity and social and welfare) as well as a sixth form senior team.</p>

```

```

<p class="myparaStyle">
  <span class="mytitleStyle">Do you have a question, query or suggestion?</span>
</p>
<p class="myparaStyle">You can email us at studentleadershipteam@jogschool.org or use the form below.</p>
<!-- Insertion of HTML form with link to other file. The method of 'get' allows form submission. -->
<form action="submitdata.php" method="get" id="Responses">
  <p class="myparaStyle">
    Name (Optional):
    <!-- Text Field -->
    <input type="text" name="name" id="name" />
  Year Group:<br/>
  <!-- Drop down box of year groups -->
  <select name="yeargroup" id="yeargroup">
    <option value="7">7</option>
    <option value="8">8</option>
    <option value="9">9</option>
    <option value="10">10</option>
    <option value="11">11</option>
    <option value="12">12</option>
    <option value="13">13</option>
    <option value="0">0</option>
  </select>
</p>
<p class="myparaStyle" >Who needs to be contacted?</p>
<p class="myparaStyle">
  <!-- Drop down box of contacts -->
  <select name="committeecontact" id="committeecontact">
    <option value="Facilities Committee">Facilities Committee</option>
    <option value="Charity Committee">Charity Committee</option>
    <option value="Social and Welfare Committee">Social and Welfare Committee</option>
    <option value="Student Leadership">Student Leadership</option>
    <option value="Admin"> Admin </option>
  </select>
</p>
<p class="myparaStyle">Your question/query/suggestion:</p>
<p align="center">
  <textarea name="question" cols="100" rows="5"></textarea>
  <label for="textfield"></label>
</p>
<p align="center">
  <input type="submit" name="submit" id="submit" value="Leave my question/query/suggestion" />
</p>
<p class="myparaStyle" align="center"> * Required Field - select 0 for year group if parent, guardian or teacher.</p>
</form>
<div align="center">
  <p>
    <?php
    echo ".....";
  ?>
  </span></p>
</div>
<div align="center">
<!-- Link google calendar which has important dates -->
<iframe src=
"https://calendar.google.com/calendar/embed?showTitle=0&showPrint=0&showTabs=0&showCalendars=0&showTz=0&height=600&backgroundColor=%23ffffff&src=en.uk%23holiday%40group.v.calendar.google.com&color=%23333333&src=3jlucb5jniurvu6slfrunrb3amp;color=%23AB8B00&ctz=Europe%2FLondon" style="border-width:0" width="600" height="320" frameborder="0" scrolling="no"></iframe>
<p>
</p>
<link href="file:///johnofgaunt.oakford.net/hidden$Students/Intake2010/10MBeales/Templates/Style.css" rel="stylesheet" type="text/css">
<!-- InstanceEndEditable -->
<p>
</p>
<table width=1000px class="table2">
  <tr>
    <td width="120" ><a href="index.php"></a></td>
    <td width="135" ><a href="index.php">Student Leadership</a></td>
    <td width="135" ><a href="facilities.php">Facilities Committee</a></td>
    <td width="135" ><a href="charity.php">Charity Committee</a></td>
    <td width="135" ><a href="social.php">Social and Welfare Committee</a></td>
    <td width="135" ><a href="polls.php">Polls and Questionnaires</a></td>
    <td width="117" ><a href="login.php">LOG IN</a></td>
    <td width="135" ><p><a href="https://www.google.co.uk/maps/place/The+John+of+Gaunt+School/">Wingfield Road, Trowbridge, Wiltshire</a></p>
      <p>Tel: 01225 762637</p></td>
  </tr>
</table>
</body>
<!-- InstanceEnd --></html>

```

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"><!-- InstanceBegin template="/Templates/Template.dwt" codeOutsideHTMLIsLocked="false" -->
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<!-- InstanceBeginEditable name="doctitle" -->
<title>The John Of Gaunt School | A Community Academy | Student Leadership and Committees</title>
<!-- InstanceEndEditable -->
<!-- InstanceBeginEditable name="head" -->
<!-- InstanceEndEditable -->
<link href="Style.css" rel="stylesheet" type="text/css" />
</head>
<style>
<!
    color:#1B8CB8
}
</style>
<body>
<h1> </h1>
<h2>Student Leadership and Committees</h2>
<p class="myparaStyle">It doesn't matter whether you are in Year 7 or Year 13, your ideas and input are valued. Your voice matters. </em> </p>
<div align="center">
<table width="920">
<tr>
<td width="133" ><a href="index.php"></a></td>
<td width="133" ><a href="facilities.php">FACILITIES COMMITTEE</a></td>
<td width="134" ><a href="charity.php">CHARITY COMMITTEE</a></td>
<td width="133" ><a href="social.php">SOCIAL AND WELFARE COMMITTEE</a></td>
<td width="133" ><a href="polls.php">POLLS AND QUESTIONNAIRES</a></td>
</tr>
</table>
</div>
<!-- InstanceBeginEditable name="EditRegion3" -->
<!-- Linking set template to pages to keep aesthetic consistency across web pages -->
<link href="../Templates/Style.css" rel="stylesheet" type="text/css" />
<p align="center" class="mytitleStyle">

</p>
<!-- Introduction paragraph -->
<p class="mytitleStyle">What does the Charity Committee do?</p>
<p class="myparaStyle"> The Charity Committee have members from a wide range of year groups and our main aim is to raise money for the student's chosen charities. We meet to come up with new and interesting ways of raising money and these have included a Lip Sync Battle and cake sales. Keep an eye out for more! We also aim to encourage school-wide participation in decisions through polls, surveys and questionnaires.</p>
<?php
//Database details
$servername = "localhost";
$username = "u622995620_jogus";
$password = "joguser123";
$dbname = "u622995620_jogda";
// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
//SQL query, echoing data from table Latest_News
$sql = "SELECT title,quote,description,description2 FROM Latest_News WHERE contact='Charity Committee'";
$result = $conn->query($sql);
if ($result->num_rows > 0) {
    ?>
<p align="right" class="myparaStyle">
<span class="mytitleStyle">Our latest news...</span>
</p>
<?php
    while($row = $result->fetch_assoc()) {
        ?>
<p align="right" class="myparaStyle">
<?php
        //Printing description to screen
        echo $row['description'];
        ?>
</p>
<p align="right" class="mytitleStyle">
<?php
        echo "\n" . $row["quote"] . "\n";
        ?>
</p>
<p align="right" class="myparaStyle">
<?php
        echo $row["description2"];
        ?>
</p>
<?php
    }
    //If no data in the table then...
    else {
        ?>
<p class="myparaStyle">
<?php
        //Output message
        echo "The Charity Committee continues to provide a wide range of fundraising events for the students at the John Of Gaunt School to get involved in supporting both local and international charities.";
        ?>
</p>
<div align="center">
<!-- Link google calendar which has important dates -->
<iframe src="https://calendar.google.com/calendar/embed?showTitle=0&showPrint=0&showTabs=0&showCalendars=0&showTz=0&height=300&wkst=2&hl=en&bgColor=%23ffffff&src=en.uk%23holiday%40group.v.calendar.google.com&color=%23333333&src=3jubcbjnjurvueslfrunzb3q0%40group.calendar.google.com;&color=%23A88B00&ctz=Europe%2FLondon" style="border-width:0" width="600" height="320" frameborder="0" scrolling="no"></iframe>
</div>
<!-- InstanceEndEditable -->
<p>
</p>
<table width="1000px class="table2">
<tr>
<td width="120" ><a href="index.php"></a></td>
<td width="135" ><a href="index.php">Student Leadership</a></td>
<td width="135" ><a href="facilities.php">Facilities Committee</a></td>
<td width="135" ><a href="charity.php">Charity Committee</a></td>
    <td width="135" ><a href="social.php">Social and Welfare Committee</a></td>
<td width="135" ><a href="polls.php">Polls and Questionnaires</a></td>
<td width="117" ><a href="login.php">Log IN</a></td>
<td width="155" ><p><a href="https://www.google.co.uk/maps/place/The+John+of+Gaunt+School/+Wingfield+Road,+Trowbridge,+Wiltshire,+BA14+9EH" style="color:blue; text-decoration:underline"></a></p>
</tr>

```

The above is a print screen of the code for the Charity Committee page. The other committee pages follow the same layout; the only differences are in the image, introductory paragraph and news content.

Student Leadership and Committees

It doesn't matter whether you are in Year 7 or Year 13, your ideas and input are valued. Your voice matters.

FACILITIES COMMITTEE **CHARITY COMMITTEE** **SOCIAL AND WELFARE COMMITTEE** **POLLS AND QUESTIONNAIRES**

What does the Facilities Committee do?

The Facilities Committee aims to address the issues pupils may have with current facilities and act upon ideas with improvements available to us. We would like to make school a more comfortable and enjoyable environment for every pupil. Our achievements so far include expanding the double door in Lancaster and playing a part in the development of the new Sixth Form Centre.

Our latest news...

Over the summer holidays facilities were improved throughout the school this included widening the external door in Lancaster to improve access in and out of the building.

"The door has really improved access in and out of Lancaster"

The students have noticed a visible difference in the movement around the school and improved facilities. The committee hopes to continue to make the school a good environment in which to learn in.

Student Leadership and Committees

It doesn't matter whether you are in Year 7 or Year 13, your ideas and input are valued. Your voice matters.

FACILITIES COMMITTEE **CHARITY COMMITTEE** **SOCIAL AND WELFARE COMMITTEE** **POLLS AND QUESTIONNAIRES**

What does the Charity Committee do?

The Charity Committee have members from a wide range of year groups and our main aim is to raise money for the student's chosen charities. We meet to come up with new and interesting ways of raising money and these have included a Lip Sync Battle and cake sales. Keep an eye out for more! We also aim to encourage school-wide participation in decisions through polls, surveys and questionnaires.

Our latest news...

The Charity Committee held a cake sale and non-school uniform day in aid of supporting Children In Need. The day went really well with all the cakes made sold by the end of lunch!

"Non-school uniform got the whole school involved and the cakes were really good!"

Currently the schools chosen charity is the Red Cross.

"Its great to know where the money raised is going!"

The Social and Welfare Committee is slightly different again as has a slideshow of images from the committees latest achievements. I have therefore shown the difference in code below.

Student Leadership and Committees

It doesn't matter whether you are in Year 7 or Year 13, your ideas and input are valued. Your voice matters.

FACILITIES COMMITTEE **CHARITY COMMITTEE** **SOCIAL AND WELFARE COMMITTEE** **POLLS AND QUESTIONNAIRES**

What does the Social and Welfare Committee do?

The Social and Welfare Committee aims to give a voice to students on their wellbeing within the school environment as well as planning and promoting social events across the school year. Our achievements so far include JogFest and providing support to students who may have issues of concern.

Our latest news...

JogFest was a great opportunity for talents of The John of Gaunt School to show off their great musicality. It was three hours of live entertainment, food and activities such as a tombola. Students thoroughly enjoyed the evening and many said that they would like this event to be continued as an annual tradition for the school.

"It was a fun night and the music was really good. I'm so glad the night was such a success and I'm happy we made good money for a great charity."

Attendees enjoyed a DJ set, a live drummer, live bands and individual singers. Students from all years came to enjoy the live music, activities and food. A massive congratulations to the Student Leadership Team on a very successful first event. Everybody worked very hard and thanks to some very supportive parents too. We raised over £150 for the Red Cross.

```

        die("Connection failed: " . $conn->connect_error);
    }
    $sql = "SELECT title,quote,description,description2 FROM Latest_News WHERE contact='Social and Welfare Committee'";
    $result = $conn->query($sql);
    if ($result->num_rows > 0) {
        while($row = $result->fetch_assoc()) {
    ?>
    <!--Creating a class called slideshow containing all the images that will be displayed in the slideshow-->
<div align="left" class="slideshow" style="max-width:650px">
    
    
    
    
    <span class="slideshow" style="max-width:650px"><span class="slideshow" style="max-width:650px"></span></span>

    
    
    
    
    
    
</div>
<div align="left">
    <!--Javascript function for slideshow of images-->
<script>
    var myIndex = 0;
    carousel();
    function carousel() {
        var i;
        var x = document.getElementsByClassName("mySlides");
        for (i = 0; i < x.length; i++) {
            x[i].style.display = "none";
        }
        myIndex++;
        if (myIndex > x.length) {myIndex = 1}
        x[myIndex-1].style.display = "block";
        setTimeout(carousel, 2000); // Change image every 2 seconds
    }
</script>
</div>
<!--Introduction paragraph-->
<p align="right" class="mytitleStyle">What does the Social and Welfare Committee do?</p>
<p align="right" class="myparaStyle">The Social and Welfare Committee aims to give a voice to students on their wellbeing within the school environment as planning and promoting social events across the school year. Our achievements so far include JogFest and providing support to students who may have concern.</p>

<p align="right" class="myparaStyle"><span class="mytitleStyle">Our latest news...</span></p>

<p align="right" class="myparaStyle">
<?php
    echo $row["description"];

```

Polls and Questionnaires

It doesn't matter whether you are in Year 7 or Year 13, your ideas and input are valued. Your voice matters.


FACILITIES COMMITTEE
CHARITY COMMITTEE
SOCIAL AND WELFARE COMMITTEE
POLLS AND QUESTIONNAIRES



The most current poll/questionnaire...

1. How did you find out about JOGFEST? Assemblies Tutor Visits from the Student Leadership Team Email

2. Did you attend JOGFEST? I wanted to but couldn't No, why would I attend? Yes and it was great

```

<!--l-->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"><!-- InstanceBegin template="/Templates/Template.dwt" codeOutsideHTMLIsLocked="false" -->
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<!-- InstanceBeginEditable name="doctitle" -->
<title>[REDACTED] | A Community Academy | Student Leadership and Committees</title>
<!-- InstanceEndEditable -->
<!-- InstanceBeginEditable name="head" -->
<!-- InstanceEndEditable -->
<link href="Style.css" rel="stylesheet" type="text/css" />
</head>
<style>
a{
    color:#195C93
}
</style>
<body>
<h1> </h1>
<h1>Student Leadership and Committees</h1>
<p class="myparaStyle"><em>It doesn't matter whether you are in Year 7 or Year 13, your ideas and input are valued. Your voice matters. </em></p>
<div align="center">
<table width=920>
    <tr>
        <td width="133" ><a href="index.php"></a></td>
        <td width="183" ><a href="facilities.php">FACILITIES COMMITTEE</a></td>
        <td width="184" ><a href="charity.php">CHARITY COMMITTEE</a></td>
        <td width="193" ><a href="social.php">SOCIAL AND WELFARE COMMITTEE</a></td>
        <td width="193" ><a href="polls.php">POLLS AND QUESTIONNAIRES</a></td>
    </tr>
</table>
</div>
<!-- InstanceBeginEditable name="EditRegion3" -->
<!-- Linking set template to pages to keep aesthetic consistency across web pages -->
<body>
<div align="center">
<p class="mytitleStyle"></p>
<p class="mytitleStyle">The most current poll/questionnaire...</p>
<?php
    //Database Details
    $servername = "localhost";
    $username = "u622995620_jogus";
    $password = "joguser123";
    $dbname = "u622995620_jogda";

```

```
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
$i = 1;
$sql = "SELECT pollname, q, optA, optB, optC, ResponseA, ResponseB, ResponseC FROM Create_Poll WHERE pollname='JOGFEST Review'";
$result = $conn->query($sql);
if ($result->num_rows > 0) {
    while($row = $result->fetch_assoc()) {
?>
<form id="polresponses" action="" method="post">

```

```
$newvalueA=$newValueA+1;
$sql="UPDATE Create_Poll SET ResponseA = '$newValueA' WHERE pollID = 1";
$conn->query($sql);
}
if ($option=="responseB") {
    $newValueB=$newValueB+1;
    $sql="UPDATE Create_Poll SET ResponseB = '$newValueB' WHERE pollID = 1";
$conn->query($sql);
}
if ($option=="responseC") {
    $newValueC=$newValueC+1;
    $sql="UPDATE Create_Poll SET ResponseC = '$newValueC' WHERE pollID = 1";
$conn->query($sql);
}
}

?>
</body>
<!-- InstanceEndEditable -->

<p>
</p>
<table width=1000px class="table2">
<tr>
<td width="120" ><a href="index.php"></a></td>
<td width="135" ><a href="index.php">Student Leadership</a></td>
<td width="135" ><a href="facilities.php">Facilities Committee</a></td>
<td width="135" ><a href="charity.php">Charity Committee</a></td>
    <td width="135"><a href="social.php">Social and Welfare Committee</a></td>
<td width="135" ><a href="polls.php">Polls and Questionnaire</a></td>
<td width="117"><a href="login.php">LOG IN</a></td>
<td width="135"><p><a href="https://www.google.co.uk/maps/place/"></a></p>
<p>Tel: 01225 762637</p></td>
</tr>
</table>
</body>
<!-- InstanceEnd --></html>
```

```

<!-- InstanceBeginEditable name="EditRegion3" -->
<!-- Linking set template to pages to keep aesthetic consistency across web pages -->
<?php
    // Details of Database
    $servername = "localhost";
    $username = "u622995620_jogus";
    $password = "joguser123";
    $dbname = "u622995620_jogda";
    // Create connection
    $conn = new mysqli($servername, $username, $password, $dbname);
    // Check connection
    if ($conn->connect_error) {
        die("Connection failed: " . $conn->connect_error);
    }
    // Assign variables
    $pollname=$_GET["pollname"];
    $question=$_GET["q"];
    $option1=$_GET["optA"];
    $option2=$_GET["optB"];
    $option3=$_GET["optC"];
?>
<p class="mytitleStyle">Create a Poll</p>
<p class="myparaStyle">Fill out the form below.</p>
<!--Creation of form -->
<form action="submitpoll.php" method="get" id="createpoll">
    <p class="mytitleStyle">Name of Poll:<span class="myparaStyle">
        <!--Text box for information-->
        <input type="text" name="pollname" id="pollname" />
    </span></p>
    <p class="mytitleStyle">Question: <span class="myparaStyle">
        <input type="text" name="q" id="q" />
    </span></p>
    <p class="mytitleStyle">Option/AnswerA:<span class="myparaStyle">

```

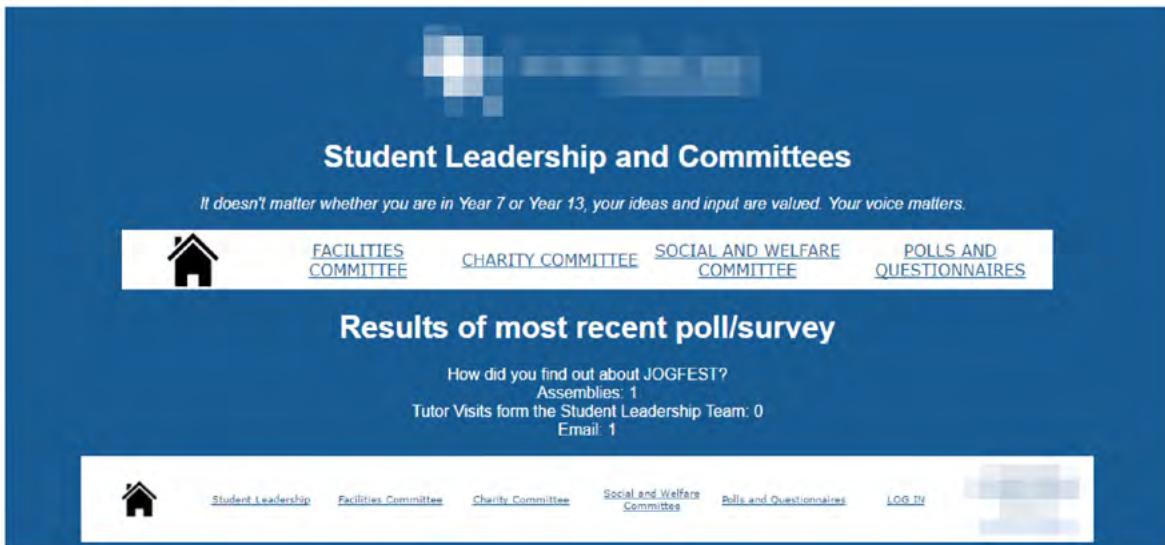
```

<p class="mytitleStyle">Option/AnswerA:<span class="myparaStyle">
    <input type="text" name="optA" id="optA" />
</span></p>
<p class="mytitleStyle">Option/AnswerB:<span class="myparaStyle">
    <input type="text" name="optB" id="optB" />
</span></p>
<p class="mytitleStyle">Option/AnswerC:<span class="myparaStyle">
    <input type="text" name="optC" id="optC" />
</span></p>
<p class="myparaStyle"> If you require to add another question, you will need to fill out this form again with the same p
<!--Submitting poll information to the database-->
<p align="center"><span class="mytitleStyle">
    <input type="submit" name="submitpoll" id="submitpoll" value="Submit Poll" />
</span></p>
</form>
<!-- InstanceEndEditable -->
```

```

<p>
</p>
<table width=1000px class="table2">
    <tr>
```

| | | | | | | |
|---|--|---|---|---|--|--------------------------------|
|  | Student Leadership | Facilities Committee | Charity Committee | Social and Welfare Committee | Polls and Questionnaires | LOG IN |
|---|--|---|---|---|--|--------------------------------|



```

</div>
<!-- InstanceBeginEditable name="EditRegion3" -->
<!-- Linking set template to pages to keep aesthetic consistency across web pages -->
<h1>Results of most recent poll/survey</h1>
<div align="center">
<p class="myparaStyle">
<?php
//Database details
$servername = "localhost";
$username = "u622995620_jogus";
$password = "joguser123";
$dbname = "u622995620_jogda";
//Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
//Check connection to database is successful
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
$sql = "SELECT q, optA, optB, optC, ResponseA, ResponseB, ResponseC FROM Create_Poll WHERE pollID=1";
$result = $conn->query($sql);
//If table is populated then echo data within it
if ($result->num_rows > 0) {
    while($row = $result->fetch_assoc()) {
        echo nl2br ($row["q"] . "\n" . $row["optA"] . ":" . $row["ResponseA"] . "\n" . $row["optB"] . ":" . $row["ResponseB"] . "\n" . $row["optC"] . ":" . $row["ResponseC"]);
    }
}
?>
</p>
</div>
```



The latest news story for the Facilities Committee :

Title:

Quote from staff or student: " "

Description (first paragraph):

Continued Description (second paragraph):

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>[REDACTED] | A Community Academy | Student Leadership and Committees</title>
<!-- Linking style sheet to pages to keep aesthetic consistency across web pages -->
<link href="Style.css" rel="stylesheet" type="text/css" />
</head>
<body>
<h1>
<div align="center">
</div>
<form action="latnewssubmit.php" method="get" id="latestnews">
<p class="myparaStyle">The latest news story for the
<select name="committeecont" id="committeecont">
<option value="Facilities Committee">Facilities Committee</option>
<option value="Charity Committee">Charity Committee</option>
<option value="Social and Welfare Committee">Social and Welfare Committee</option>
</select> :</p>
<div align="center">
<p class="myparaStyle">Title:
<input type="text" name="title" id="title" />
</p>
</div>
<div align="center">
<p class="myparaStyle">Quote from staff or student:
<quot;
<input type="text" name="quote" id="quote" />
<quot;
</p>
</div>
<p class="myparaStyle" align="center">Description (first paragraph):</p>
<p class="myparaStyle" align="center"><textarea name="description" id="description" cols="60" rows="5"></textarea>
</p>
<p class="myparaStyle" align="center">Continued Description (second paragraph):</p>
<p class="myparaStyle" align="center"><textarea name="description2" id="description2" cols="60" rows="5"></textarea>
</p>
```

```

<p align="center">
    <input type="submit" name="submit" id="submit" value="Submit this news story" />
</p>
</form>
<p>
</p>
</body>
</html>

```

The code above is for the structure of the form itself. The code below on the other hand is for when the form is submitted to the database and is therefore written predominantly in php rather than HTML code in order to create a relationship with the database.

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="refresh" content="5; url=http://jogstudentleadership.esy.es/" />
<link rel="studentleadership" href="http://jogstudentleadership.esy.es"/>
<link href="Style.css" rel="stylesheet" type="text/css" />
<title>Untitled Document</title>
</head>

<body>
<p class="myparaStyle">Thank you for submitting a news story for the <?php echo $_GET["committeeecont"]; ?>. You will be redirected in
5 seconds.
<?php
    // Details of Database
    $servername = "localhost";
    $username = "u622995620_jogus";
    $password = "joguser123";
    $dbname = "u622995620_jogda";
    // Create connection
    $conn = new mysqli($servername, $username, $password, $dbname);
    // Check connection
    if ($conn->connect_error) {
        die("Connection failed: " . $conn->connect_error);
    }
    // Assign variables
    $contact=$_GET["committeeecont"];
    $title=$_GET["title"];
    $quote=$_GET["quote"];
    $text=$_GET["description"];
    $text2=$_GET["description2"];
    $sql = "INSERT INTO
Latest_News(contact,title,quote,description,description2)VALUES('$contact','$title','$quote','$text','$text2')";

    if ($conn->query($sql) === TRUE) {
        echo "Response stored successfully";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }

    $conn->close();
?>
</p>
</body>
</html>

```

The screenshot shows a website with a dark blue header. At the top, there is a logo consisting of a white square with a smaller white square inside it. Below the logo, the text "Student Leadership and Committees" is displayed in a bold, white, sans-serif font. Underneath this, a smaller line of text reads "It doesn't matter whether you are in Year 7 or Year 13, your ideas and input are valued. Your voice matters." A navigation bar follows, featuring a house icon and four menu items: "FACILITIES COMMITTEE", "CHARITY COMMITTEE", "SOCIAL AND WELFARE COMMITTEE", and "POLLS AND QUESTIONNAIRES".

The main content area is titled "Comments for the Admin" in a bold, white font. It contains several comment boxes, each with a timestamp and a student's message:

- Year: 13
Fantastic websitel Maybe (when you get the details for it) add the minutes for the committees?
- Year: 13
Looks good so far, Mollie :)
- Year: 13
JoGFEST Poll does not work. Perhaps use an embedded Google Form or Typeform (looks nice!) This site looks really good Mollie! Could do with less sharp corners but it seems quite comprehensive. Perhaps we also need a space for minutes?
- Year: 9
This looks great, really professional.
- Year: 7
Looking really good so far!
- Year: 13
Hello :)
- Year: 0

```

<!-- InstanceBeginEditable name="EditRegion3" -->
<!-- Linking set template to pages to keep aesthetic consistency across web pages -->
<h1>Comments for the Admin</h1>
<div align="center">
<?php
    //Database Details
    $servername = "localhost";
    $username = "u622995620_jogus";
    $password = "joguser123";
    $dbname = "u622995620_jogda";
    //Create Connection
    $conn = new mysqli($servername, $username, $password, $dbname);
    //Check Connection is successfull
    if ($conn->connect_error) {
        die("Connection failed: " . $conn->connect_error);
    }
    //SQL query, echoing data from table where contact = Admin
    $sql = "SELECT yeargroup, committeecontact, question FROM Student_Questions_and_Queries WHERE committeecontact= 'Admin'";
    $result = $conn->query($sql);
    if ($result->num_rows > 0) {
        // Output data of each row
        while($row = $result->fetch_assoc()) {
            ?
            <!--Output data into a table format-->
            <p class="myparaStyle">
            <!--Creating table-->
            <table>
            <!--Creating a row-->
            <tr>
            <td class="currentpoll">
            <?php
                echo " Year: ". $row["yeargroup"]; ?>
            </td>
            </tr>
            <tr>
            <td class="currentpoll">
            <?php
                echo $row["question"]; ?>
            </td>
            </tr>
            </table>
            <?php
        }
    } else {
        echo "Currently no questions, queries or suggestions for Admin";
    }
?>

```

Again, like the committee pages, there is a questions, queries and suggestions page for each committee. I have shown the code for the Charity page – on the other pages the committee contact is replaced respectively.

The screenshot shows a blue-themed website with a navigation bar at the top. The navigation bar includes a house icon, links for 'FACILITIES COMMITTEE', 'CHARITY COMMITTEE' (which is underlined), 'SOCIAL AND WELFARE COMMITTEE', and 'POLLS AND QUESTIONNAIRES'. Below the navigation bar, the main content area has a title 'Student Leadership and Committees' and a subtitle 'It doesn't matter whether you are in Year 7 or Year 13, your ideas and input are valued. Your voice matters.' A large button labeled 'Questions, Queries and Suggestions for the Charity Committee.' is centered. Below it, a message says 'Currently no questions, queries or suggestions for the Charity Committee' and 'Year 0 is a parent, guardian or teacher/staff.' At the bottom of the page, there is a footer with a house icon and links for 'Student Leadership', 'Facilities Committee', 'Charity Committee', 'Social and Welfare Committee', 'Polls and Questionnaires', and 'LOG IN'.

```

</table>

</div>
<!-- InstanceBeginEditable name="EditRegion3" -->
<!-- Linking set template to pages to keep aesthetic consistency across web pages -->
<h1>Questions, Queries and Suggestions for the Charity Committee.</h1>
<div align="center">
<?php
    //Database details
    $servername = "localhost";
    $username = "u622995620_jogus";
    $password = "joguser123";
    $dbname = "u622995620_jogda";
    // Create connection
    $conn = new mysqli($servername, $username, $password, $dbname);
    // Check connection is successfull
    if ($conn->connect_error) {
        die("Connection failed: " . $conn->connect_error);
    }
    //SQL query, echoing data from table where contact = Charity
    $sql = "SELECT yeargroup, committeecontact, question FROM Student_Questions_and_Queries WHERE committeecontact= 'Charity Committee'";
    $result = $conn->query($sql);
    if ($result->num_rows > 0) {
        // Output data of each row
        while($row = $result->fetch_assoc()) {
            ?>
            <p class="myparaStyle">
            <?php
                echo "<br> Year: ". $row["yeargroup"]. " Question/Query/Suggestion:" . $row["question"] . "<br>";
            ?>
        }
    } else {
        echo "Currently no questions, queries or suggestions for the Charity Committee";
    }
?>
</p>
<p class="myparaStyle"> Year 0 is a parent, guardian or teacher/staff.</p>
</div>
<!-- InstanceEndEditable -->

<p>
</p>
<table width=1000px class="table2">
    <tr>
```

Log In



Student Leadership and Committees

It doesn't matter whether you are in Year 7 or Year 13, your ideas and input are valued. Your voice matters.


[FACILITIES COMMITTEE](#)
[CHARITY COMMITTEE](#)
[SOCIAL AND WELFARE COMMITTEE](#)
[POLLS AND QUESTIONNAIRES](#)

Log In

Username:

Password:

Wingfield Road,

```

<table width=920>
  <tr>
    <td width="133" ><a href="index.php"></a></td>
    <td width="183" ><a href="facilities.php">FACILITIES COMMITTEE</a></td>
    <td width="184"><a href="charity.php">CHARITY COMMITTEE</a></td>
    <td width="193"><a href="social.php">SOCIAL AND WELFARE COMMITTEE</a></td>
    <td width="193"><a href="polls.php">POLLS AND QUESTIONNAIRES</a></td>
  </tr>
</table>

</div>
<!-- InstanceBeginEditable name="EditRegion3" -->
<!-- Linking set template to pages to keep aesthetic consistency across web pages -->
<p class="mytitleStyle" >Log In</p>
<form action="checklogin.php" method="post" id="">
  <p class="mytitleStyle"> Please Log In: </p>
  <p align="center" class="myparaStyle"> Username:<br/>
    <input type="text" name="username" id="username" />
  </p>
  <p align="center" class="myparaStyle"> Password:<br/>
    <input type="password" name="password" id="password">
  </p>
  <div align="center">
    <p>
      <input type="submit" name="submit" id="submit" value="Submit" />
    </p>
  </div>
</form>
</body>
</html>
<!-- InstanceEndEditable -->

<p>
</p>
<table width=1000px class="table2">
  <tr>
    <td width="120" ><a href="index.php"></a></td>
    <td width="135" ><a href="index.php">Student Leadership</a></td>
    <td width="135" ><a href="facilities.php">Facilities Committee</a></td>
    <td width="135" ><a href="charity.php">Charity Committee</a></td>
    <td width="135" ><a href="social.php">Social and Welfare Committee</a></td>
    <td width="135" ><a href="polls.php">Polls and Questionnaires</a></td>
    <td width="117" ><p><a href="https://www.google.co.uk/maps/place/">LOG IN</a></p>
  </tr>
</table>

```

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>checklogin</title>
<?php
    // if username and password is correct direct to another webpage (sucess.php)
    if ($_POST['username']=="admin" and $_POST['password'] == "jogadmin123"){
        header("Location: [REDACTED]/success.php");
        exit;
    }
?>
<!--Linking the style sheet to keep aesthetic consistency across web pages-->
<link href="Style.css" rel="stylesheet" type="text/css" />
</head>
<body>
<div align="center">
    <p class="myparaStyle">
<?php
    $servername = "localhost";
    $username = "u622995620_jogus";
    $password = "joguser123";
    $dbname = "u622995620_jcgda";
    // Create connection
    $conn = new mysqli($servername, $username, $password, $dbname);
    // Check connection
    if ($conn->connect_error) {
        die("Connection failed: " . $conn->connect_error);
    }
    //Check Username is correct
    if ($_POST['username']!='admin'){
        echo "Username is wrong";
    }
    //Check Password, if incorrect then redirect the user to try again
    if ($_POST['password'] != "jogadmin123"){
        echo "Password is wrong, we will redirect you to try again.";
        echo "<meta http-equiv='refresh' content='3; URL=[REDACTED]/login.php'" />";
    }
?>
<!--Close all tags-->
</p>
</div>
</body>
</html>

```

Student Leadership and Committees

It doesn't matter whether you are in Year 7 or Year 13, your ideas and input are valued. Your voice matters.

[FACILITIES COMMITTEE](#) [CHARITY COMMITTEE](#) [SOCIAL AND WELFARE COMMITTEE](#) [POLLS AND QUESTIONNAIRES](#)

What do you want to do?

- [View the most recent poll/survey.](#)
- [View the most recent poll/survey.](#)
- [View results of the most recent poll/survey.](#)
- [Add new poll/survey.](#)
- [Add a latest news story for one of the committees.](#)
- [Chose the latest news story for one of the committees.](#)
- [View questions,queries and suggestions for the Social and Welfare Committee.](#)
- [View questions,queries and suggestions for the Charity Committee.](#)
- [View questions,queries and suggestions for the Facilities Committee.](#)
- [View comments for the Admin.](#)

```



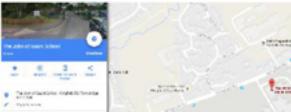
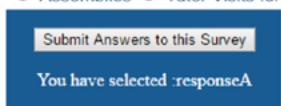
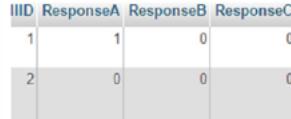


```

3.3.1 Iterative Development Process

| | What am I testing? | What should happen? | What does happen? | What alterations need to be made? | How does this affect my program/website? |
|---------------------------------|---|--|---|---|--|
| 1 3 / 9 / 1 6 | I am testing that each of my pages load successfully when opened. | The page (charity.php etc.) should load. | This loads successfully. | None. | I can now link all my pages together via the use of a navigation bar set in my template. |
| " | I am testing that my links at the top of each page are working and take the user to the correct page. | When the link is pressed, it should take the user to the appropriate page. | The links work successfully. | None. | This provides interaction in my webpage and allows access to the correct page. |
| 1 6 / 9 / 1 6 | The display of elements in forms. | Elements such as a text field should be displayed and allow use. (Check boxes work). | Elements appear works successfully.  | None. | Allows me to think about how a form (for questions and responses) would work and link to a database. |
| " | That my website can be viewed online through a domain name. | Webpage should become visible to anyone, use of link. | Using jogstudentleadership.esy.es page is visible and all links work. | When I uploaded, files they had to be stored exact to that stored on the computer (file names also to be the same). | My website can now be viewed online through a domain name; this will allow me to test my program more efficiently. |
| 2 1 / 9 / 1 6 | <p>The leave a suggestion button (submit) will take responses and store them in a database.</p> <p>Firstly, I need to create a database to store the responses. The database should record the results that are sent to it.</p> | | | | |
| 3 0 / 9 / 1 6 | A login page will take Username and Password. | Can enter username and password, password should be displayed as **** | Loads successfully.  | Now needs to be taken and looked up in database to see if the username and password are correct. | |
| 9 / 1 0 / | That the username and password are correct. | Output that username and password are correct. | Output message displays as expected | None, I now need the user to be directed if username and | This will allow only specific users to make polls and questionnaires etc. |

| | | | | | |
|---|---|--|--|--|---|
| 1 6 | | | | password is correct. | |
| 1 / 1 / 1 / 1 / 1 / 6 | That the survey information entered can be displayed in a user-friendly way to be answered | The most recent survey should be displayed (question and choice of answers) | The survey appears but in a very basic format with no availability to select your answer.  | I need to put the answers in a format that the user can pick one (radio button?) and provide a submit button for user responses. | The survey will allow students to provide responses that can be analysed. |
| 7 / 1 / 1 / 1 / 1 / 6 | That the survey will be displayed in a user friendly way and an answer can be selected. | The answers should be displayed in a table format with a radio buttons to select answer. | The survey appears in a table format.  | The border could be made the same colour as the background to blend in and need a submit button for answers. | Answers to basic surveys can now be selected. This will allow students to provide responses that can be analysed. |
| " | The submit answers button will appear and the survey appears in a professional looking format. | The submit answers button should be displayed and the survey appears in a professional looking format. | The survey appears professionally and the submit answers button appears to.  | | The survey fits in with the look of my website and a submit answer button is ready to be linked to PHP code that will take the users answers and add them to SQL table. |
| 9 / 1 / 1 / 1 / 6 | I found that the current way in which I am creating a poll would only allow one question to be inputted. I have an idea to create a new table for each time someone creates a new poll with the poll name entered, as the table name. This will allow multiple questions to be added as rows to the table, which can be outputted in an easy and efficient way for users to complete. I also need to figure out a way in which when a button is clicked another form/question can be added to the survey. This needs to have a different | | | | |
| " | I have found I will not need to create a new table for each survey. I can replicate the poll name each time for each question entered and then display all questions, which have the poll name in common. To add another question, I will go about it by storing the user input in a JavaScript array that I will then send via PHP to my SQL table. | | | | |
| 2 1 / 1 / 1 / 1 / 6 | Google Calendar displays on page with meeting dates | Google calendar is displayed and meetings can be clicked on for more information. | Google calendar works and meeting dates display nicely within it.  | None | Allows students easy access to when our next meeting date is, saves sending out an email every time of when next meeting date is. |

| | | | | | |
|--------------------------------------|--|--|--|--|---|
| | The address of the school is linked to google maps so users can see location. | Google maps opens up in another tab, zoomed in on location of the school. | Google maps opens and successfully pinpoints the school site.  | None | Another feature within bottom bar – to match the schools current website |
| 2 9 / 1 1 / 1 6 | Student's results to a survey are added to the database. Need to find what radio button has been selected? | The radio button the user selected will be outputted to the screen. | Response A, B or C is printed to the screen dependent on what radio button the user selected.  | See next step below. | User's results are collected via the form and value of responses increments in table when response has been chosen. These responses can be analysed by admins to see patterns and trends. |
| 2 / 1 2 / 1 6 | Student's results to a survey are added to the database. Increment value of response each time it is selected. | The column Response A, B or C will increment by 1 each time the value is selected. | The value in the table increments by 1.  | Now need to allow this option to be available for Response B and C, not just A. UPDATE: (5/12/16) Works for all response options. | " |
| 5 / 1 2 / 1 6 | Results to the surveys are displayed with how many votes have been for each option. | The amount of votes for each option per question will be displayed. | Results of most recent poll/survey  Response total is displayed next to the corresponding option. | The results are put into a table format and a total number of votes is calculated and added to the end of the table. | |

3.3.2 Testing to Inform Development

I performed black box testing throughout my program and this can be shown in my testing table above. For each input, I checked that I would receive the correct/expected output- "when this goes in this should be the result".

Below I have shown boundary testing (fuzz testing) to check entry of data into the form on the homepage. I provided invalid/unexpected data, data that just meets requirements (boundaries) and correct/expected data. Furthermore, I also wanted to test whether text longer than 255 characters could be stored in the database and if not what would happen.

| | Input | Expected Output | Actual Output |
|---------------|---|---|---|
| Invalid Data | Aaaaaaaaaaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaaaaaaaaa | Error message recognising the string is too long to be stored | The first 255 characters of the response was stored successfully whilst the rest were deleted |
| Boundary Data | " | The string of 255 characters is stored | As expected |

| | | | |
|--------------|--|---------------------------------------|-------------|
| Correct Data | | Response stored successfully in table | As expected |
|--------------|--|---------------------------------------|-------------|

As well as the entry of data, I also checked that the buttons provided did what they should do, either a link to another page, submission of a form etc. (Also seen in the testing table above)

References

| Source of information | What did I find out? |
|---|--|
| http://stackoverflow.com/questions/5665571/auto-increment-in-phpmyadmin | How to auto increment my primary key in order to allow more than one entry for a survey. |
| https://www.formget.com/php-select-option-and-php-radio-button/ | Told me how to get the value of a selected option (radio button/drop down box) to find out which option was selected which was useful for finding what option the user had selected in a poll. |
| Dreamweaver for Dummies (Janine Warner) | This book provided me with a quick reference of how features can be added and altered in Dreamweaver. This includes things such as image positioning and creating forms. |

3.4 Evaluation

3.4.1 Testing to Inform Evaluation

At the end of the development process, I have tested robustness to see how my website/program is able to cope with errors during execution. The overall result was good with my program/website being able to withstand testing.

Usability Testing

I created a questionnaire that was answered by students in the Student Leadership team and those who are not in order to have some user feedback on my website. This included questions about the aesthetics of my web pages, the inputs and outputs and features such as the polling section. This will allow me to see if my initial requirements have been met. Below I have shown the questions asked and the general responses, both compliments and criticisms.

| Question | Response |
|---|---|
| What are your first impressions? | ✓ Professional and useful with a good colour scheme and a clear and easy to navigate layout. ✗ Could be more eye catching with different fonts? I understand it matches school themes but could be considered. |
| Do you like the layout of each page of my website? | ✓ Yes (70%) It's okay but could be improved (30%) ✗ No (0%) |
| Is the layout of my website kept consistent? (/5 where 5 is very consistent) | ✓ 5 (30%) 4 (60%) 3 (10%) 2 (0%) ✗ 1 (0%) |
| Does the layout of my website complement the schools current website? | ✓ Yes (60%) In some ways (40%) ✗ No (0%) |

| | |
|--|--|
| Who do you feel will benefit from this website most? | <input checked="" type="checkbox"/> Students Some responses mentioned that the website would also benefit parents and staff |
| How will this website benefit students? | <ul style="list-style-type: none"> • It will inform them of what the SLT do and hopefully convince them to take part. • They will know what is happening within the student leadership meetings. Letting them know what matters they have taken up and changed which may encourage them to join to offer their improvements. • It offers students a place to go for their questions to be answered. • It gives students the chance to voice their opinions if they do not want to say it in person. In addition, shows exactly what the SLT do. • Allows them to interact with the leadership team more directly. |
| How will this website benefit the Student Leadership Team? | <ul style="list-style-type: none"> • It will enable us to get feedback from students through questionnaires and increase membership numbers. • They can look at what the other committees are doing before the full board meetings. <ul style="list-style-type: none"> • It will let them know what things need improving in the school via student feedback. • We can have access to more voices than we currently have (through emails). • Gaining info, ideas, and feedback from students who do not want to attend meetings. |
| What is the best feature of my website and why? | <input checked="" type="checkbox"/> Calendar – meeting dates <input checked="" type="checkbox"/> Polls and questionnaires - gives anyone a place to fill them out without trying to find them that may be lost in student email inboxes <input checked="" type="checkbox"/> Latest news and pictures are great. Just need to make sure that pictures are updated regularly. |
| Is my website missing something, if so what is it? | <ul style="list-style-type: none"> • More information on student leadership as a whole (information for parents etc.) • Maybe add the possibility of accessing the agenda and minutes of meeting. |
| Are the functions of current systems such as Survey Monkey and Google Forms implemented in my website? | <input checked="" type="checkbox"/> Strongly Agree (20%) <input checked="" type="checkbox"/> Agree (70%) <input type="checkbox"/> Disagree (0%) Do not understand the question (10%) |
| Please leave a comment on the homepage of website by filling in the form. Is this form easy to use? Does the website benefit from this? | <input checked="" type="checkbox"/> Yes, it is easy and a good feature to drop questions. It is not a hidden feature. |

| | |
|--|--|
| Please leave any improvements for my website below: | <ul style="list-style-type: none"> • Each committee updated with more information as more is done around school. • More information about SLAs as a whole for parents who may be interested in getting their child to join or for when they are looking at schools to come to. • Make sure sight is updated regularly |
| Any other comments? | On the facilities page could you also add a slideshow of before and after within improvements in school, like the social page. |

3.4.2 Success of the Solution

| Aesthetics | Requirements | How is it measureable? | Success Rating /10 |
|------------|--|---------------------------|--------------------|
| 1 | Font size is large enough and easily readable by users (students, staff & parents) | Feedback form user review | 10 |
| 2 | Complement the school website through colour and font choice | Feedback form user review | 8 |
| 3 | All pages will include the school logo | --- | 10 |

From the user feedback, the font size is readable by users and all users managed to fill in the form successfully. I used the same template on every page that included the school logo/banner, to ensure the school logo was included on every page, and matched colours from visiting the school website and looking at the style sheet. User feedback assured that I had complemented the school website and kept a consistent and clear layout (although not 100% believed that the layout of my website complemented the schools current website).

| Inputs | Requirements | How is it measureable? | Success Rating /10 |
|--------|--|--|---|
| 1 | Each member of the SLT will input a username and password that will be checked | Will be a true or false value, measured in testing | 10 (but not checked against a table) |
| 2 | Users can answer the polls | Measured in testing | 9 |
| 3 | Students questions and queries will be taken from the form on the homepage | Measured in testing and user feedback | 10 |

In user feedback, I asked each person to fill out the form on the homepage. They all found the form easy to fill in, submit, and liked the drop down boxes for some information. All questions and queries were/are successfully stored to the database. Although there is no individual table for all usernames and passwords and it is instead checked against the program itself, the username and password are still tested and if incorrect, a message is displayed. The polls are presented in an easy to understand way and from user feedback are easy to answer using the radio buttons provided within the layout.

| Outputs | Requirements | How is it measureable? | Success Rating /10 |
|---------|---|---------------------------------|--------------------|
| 1 | Once users have submitted the form a message will be displayed and then they will be redirected | White box testing | 10 |
| 2 | News stories will be seen by users on committee pages | User Feedback/White Box Testing | 10 |
| 3 | Data of polls will be recalled from the database | Measured in Testing | 10 |

I have shown below the message that is displayed after filling the form in on the homepage, this shows that the requirement that a message will be displayed once users have submitted the form is successful and after the user is redirected as set in the requirement specification. News stories are visible on each committee page and are set by the user as to which story appears. Finally, I tested that the data of polls appeared correctly when the user went to answer the poll. This also appeared correctly in a presentable way for the user.

Response stored successfully

Thank you [redacted] your response has been stored. You will be directed in 3 seconds.

3.4.3 Describe the Final Product

If you are a user of my website then you are limited on what you can do. The main thing you a user can do is provide useful feedback for the Student Leadership Team. As an admin, you have a lot more options in what you can do on my website like adding new content to the website including polls and latest news stories. Below I have provided a user guide (flow of events) of how a user and an admin would use my website.

User Guide

Use the navigation bar at either the top or bottom of the page to guide your way through my website. Click on the page you wish to see and you will be directed.



Adding a question, query or suggestion

To do this you will need to be on the homepage of my website. The form is easily visible and does not take much time to fill in. The name box is optional (1); select your year group (2) and the committee you wish to contact (3) from the drop down boxes by pressing the arrow next to the box and then your choice. Lastly, add your comment/question/query/suggestion (4). When the submit button is clicked/pressed you should then see a short message displayed on a new screen before being redirected back to the homepage. Once redirected this means your response has been stored successfully.

You can email us at studentleadershipteam@jogschool.org or use the form below.

1 Name (Optional): **2** Year Group * 7

Who needs to be contacted?*

3 Facilities Committee

Your question/query/suggestion:*

4

Leave my question/query/suggestion.

* Required Field - select 0 for year group if parent, guardian or teacher.

Answering a poll/questionnaire

Unfortunately, you will need to select and submit your response to each question individually. Select your answer by clicking the radio button to the left of the response you wish to leave (1). Then click the submit button underneath the question to leave your response (2), you will then be redirected where you can then answer the other question and again leave your response in the same way.

The most current poll/questionnaire...

1. How did you find out about JOGFEST? 1 Assemblies 2 Tutor Visits form the Student Leadership Team 3 Email

2 Submit Answer to this Question

2. Did you attend JOGFEST? 1 I wanted to but couldnt 2 No, why would I attend? 3 Yes and it was great

Submit Answer to this Question

Admin Guide

Logging In

To log in first click the log in link within the bottom navigation bar (1). Once there the page will look something like this (2). You then need to enter the username (3) and password (4) you have been given as part of the Student Leadership Team. Then click the submit button (5). You should then be presented with a drop down box of options available to you (6). If you fail to enter the correct username and password, you will instead be presented with an error message and then be redirected to try again.

Student Leadership Facilities Committee Charity Committee Social and Welfare Committee Polls and Questionnaires **1** LOG IN

2

What do you want to do?

View the most recent poll/survey.
View the most recent poll/survey.
View results of the most recent poll/survey.
Add new poll/survey.
Add a latest news story for one of the committees.
Choose the latest news story for one of the committees.
View questions,queries and suggestions for the Social and Welfare Committee.
View questions,queries and suggestions for the Charity Committee.
View questions,queries and suggestions for the Facilities Committee.
View comments for the Admin.

6

Adding a new poll

Once you have selected this option from the drop down box you will be presented with a form to fill in (1). Fill in all the information required including each of the three option/answer boxes (2). To save your poll to the database click the submit button at the bottom of the page (3). To add another question to the poll, you will need to fill out the same form again (which will be reset after you submit as will be redirected) remembering to use the same poll name.

Create a Poll

1 Fill out the form below.

Name of Poll:

Question:

Option/AnswerA: **2**

Option/AnswerB:

Option/AnswerC:

If you require to add another question, you will need to fill out this form again with the same poll name.

3

Adding a latest news story

Adding a latest news story is similar to creating a new poll. Again, there is a form layout to fill in before being submitted and saved to the database.

Pick the committee that you are creating the news story for by clicking the arrow and seeing options available in a drop down box (1). Add a title of the news story (2) – this will not be seen when recalled on the committee pages but allows easy reference. Add a quote and then a description (3). You can write as much as required but it is recommended to be split into two paragraphs, which when outputted will be separated by the quote you have entered. You do not have to fill the second paragraph box.

The latest news story for the Facilities Committee **1** :

Title: **2**

Quote from staff or student: " "

Description (first paragraph):
3

Continued Description (second paragraph):

Submit the form in the same way by clicking the submit button at the bottom of the page.

3.4.4 Maintenance and Development

```

</script>
What is Student Leadership? What do we do?</p>
<!-- Introduction to website -->
<p class="myparaStyle">The Student Leadership Team is made up of three committees (facilities,charity & team.</p>
<p class="myparaStyle">
    <span class="mytitleStyle">Do you have a question, query or suggestion?</span>
</p>
<p class="myparaStyle">You can email us at studentleadershipteam@jogschool.org or use the form below.</p>
<!-- Insertion of HTML form with link to other file. The method of 'get' allows form submission. -->
<form action="submitdata.php" method="get" id="Responses">
    <p class="myparaStyle">
        Name (Optional):
        <!-- Text Field -->
        <input type="text" name="name" id="name" />
    Year Group:
    <!-- Drop down box of year groups -->
    <select name="yeargroup" id="yeargroup">
        <option value="7">7</option>
        <option value="8">8</option>
        <option value="9">9</option>
        <option value="10">10</option>
        <option value="11">11</option>
        <option value="12">12</option>
        <option value="13">13</option>
        <option value="0">0</option>
    </select>
</p>
<p class="myparaStyle" >Who needs to be contacted?*</p>
<p class="myparaStyle">
    <!-- Drop down box of contacts -->
    <select name="committeeccontact" id="committeeccontact">

```

I have tried to allow my program/website to be easily maintainable which will allow my website to be continued and kept efficient. Through indenting and commenting my code (also improves readability of the code), using a consistent style and method throughout (using CSS to keep my styles of text within) and by keeping a good structure to my site (using consistent names that will match the site navigation to the folder structure) I believe my website will be maintainable. I have also used appropriate and readable function and variable names for easy reference.

My program could potentially be further developed in the future to keep its efficiency and improve the use of my website.

My program could be improved by allowing multiple individual username and passwords to be checked, for different members of the Student Leadership Team (all stored within a secure database table). This will allow my website to be more personalised to the user and more importantly make the admin section of my website more secure, as there will be individual logins for each member of the Student Leadership Team rather than just a single one.

Furthermore, the process of creating a poll could be developed; the admin/member of SLT should be able to add more than one question to the poll meaning the user does not have to create multiple polls on the same subject and allowing more responses as more questions. This will be more practical for my website and allow the Student Leadership Team to gather a well-rounded evaluation of an event etc.

From user feedback, I could also develop some design features. One user in the questionnaire asked that the facilities page could also have a slideshow of images including before and after of improvements in school, like the social and welfare page.

Examiner commentary

Question/Part: AO 2.2 Analysis

Marks: 8/10

The teacher's mark of 8 is generous for this section.

The student's introduction to the problem quite clearly states the range of tasks they have decided to undertake during their project. Whilst the nature of some projects means that a lot is known at the beginning, the student has left themselves with little to investigate that is not already described.

Despite this, further investigation and analysis of existing websites which do similar tasks (as listed in the client survey) was expected and yet was not carried out. Short surveys were carried out with two stakeholder groups, although many answers to the questions are already known and add little to what has already been stated.

The Analysis contains no content from section 2.2.2 of the H446 specification on computational methods but for the small mention of 'accessed anywhere' from the problem introduction.

The discussion of limitations of the project (pages 4-5) is good and well-related to the students work.

The student has attempted to list some of the essential requirements of the project in tables, however these are somewhat fragmented and do not paint a full picture of the concept as a whole. Several key aspects described have not been brought through from earlier parts of the section.

The description of the system on page 4 forms a better overall view, but this is still lacking specific measurable criteria in parts.

Question/Part: AO 3.1 Design

Marks: 11/15

The diagram on the first page of the section breaks down the website into its component parts, some of which are described on the next page. The structure of the site is fairly clear.

The nature of the project at this stage seems somewhat simplistic, and the following design elements do not show depth greater than a basic PHP connection and simple SQL input/output and possibly JavaScript validation (HTML and CSS are not considered high level programming languages).

At A level it is expected that a Computer Science project will consist of a substantial amount of code, whereas this appears to be simple individual components carrying out small unconnected tasks. It bears more similarity to an ICT A Level project.

Some basic algorithms are linked to relevant parts of the top down design diagrams. Not all aspects are covered and there are no detailed plans of the SQL statements to be used.

Interfaces and design aesthetics are explained, with some elements of usability discussed. Validation of some log-in inputs is outlined although is lacking detail.

Table structures and variable dictionaries are shown across several pages.

There is an attempted ERD on page 12, however the relationships are inaccurate.

There is a test table describing testing to be carried out to check the functionality of the system and how the test will be deemed successful. There is no post-development testing planned.

Although it can be considered to meet most of the descriptors in the level 3 section, this is an A Level Computer Science project. There is not enough evidence of algorithmic work, validation detail (based on the user input requirements) or testing depth to compensate for the lack of complexity.

The teacher's mark of 11 is lenient based on the work presented

Question/Part: AO 3.2 Developing the coded solution

Marks: 9/15

There are lots of screenshots of web pages and the script behind each. Some of these images have some simple accompanying comments.

A PHP database connection is set up, SELECT queries, INSERT SQL and some simple IF and WHILE loops are used.

There is a lot of repetition and only the new and relevant code needed to be shown (i.e. not all of the HTML need be shown – this could be added in an appendix at the end of the work).

There is a little review of the work in the final two columns of the Iterative Development Process testing table, with some updates and changes to the planned work.

The variables that are used are appropriately named and there are some comments throughout the code presented.

Whilst it meets the descriptors for level 2, it lacks the expected depth to meet mark band 3. On the whole the evidence has been described rather than explained. There is no substantial code and therefore it cannot be considered truly modular.

The mark given is viewed as being generous.

Question/Part: AO 3.2 Testing to inform development

Marks: 5/10

There is some evidence of testing parts of the solution, although many of these tests are of non-coded elements. There are descriptions of some errors and remedial actions but these are not evidenced with screenshots or video.

Question/Part: AO 3.3 Testing to inform evaluation

Marks: 4/5

There is a description of some generic testing of unspecified fields on the log-in page. There is no evidence of this testing being carried out or the results.

The evaluation section contains a summary of feedback from end users covering a range of usability features. These are commented on as part of the evaluation.

If the work in the first test table is considered iterative testing then this work should not be credited in this section, therefore the teacher's mark cannot be agreed for this section.

Marking is lenient here.

Question/Part: AO 3.3 Evaluation of solution

Marks: 12/15

The usability requirements are discussed and backed up by results from the end-user testing.

Each requirement is given a success rating out of 10 but the evidence is not cross-referenced or backed up by any further evidence except the students own comments and screenshots of blank GUIs. There is no real evidence any data is stored or that any code runs at all.

Although some changes/ failures are discussed there is no realistic acceptance of the impact of these e.g. that the usernames are not stored. Some limitations and further developments are addressed simply at the end of the section.

The work lacks clarity and there is limited evidence to support the statements made.

The work is marked too leniently.



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