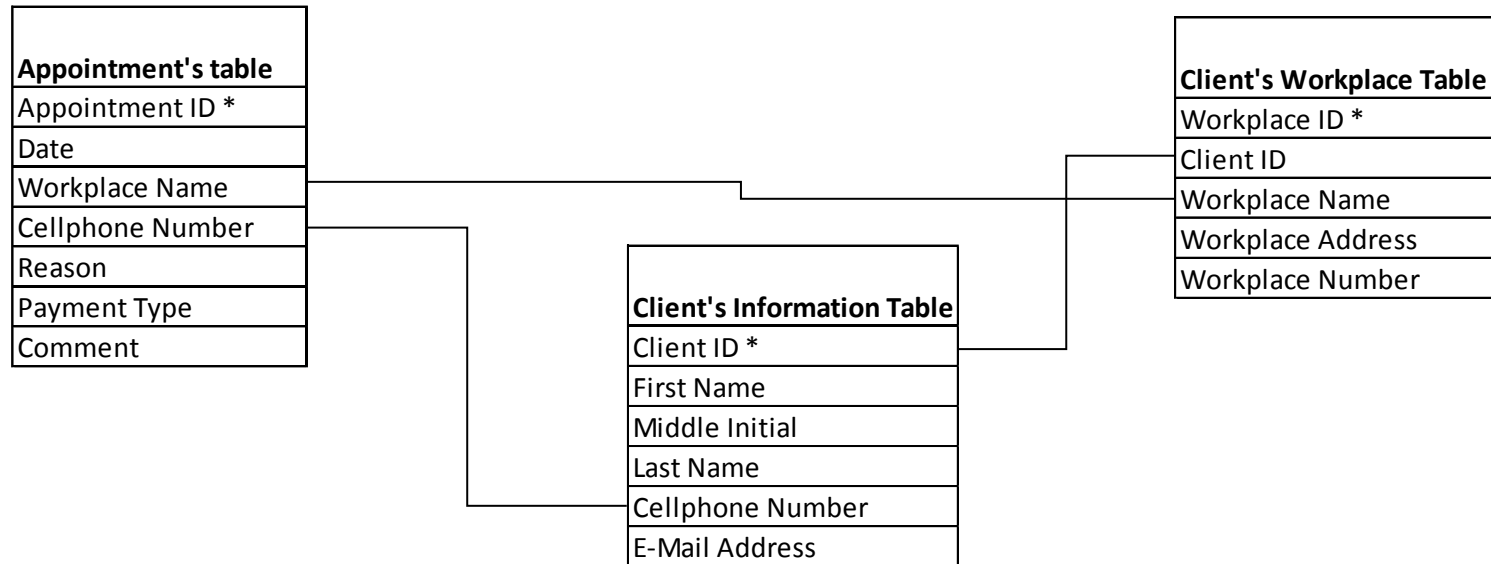


Criterion D: Product design—Overall structure

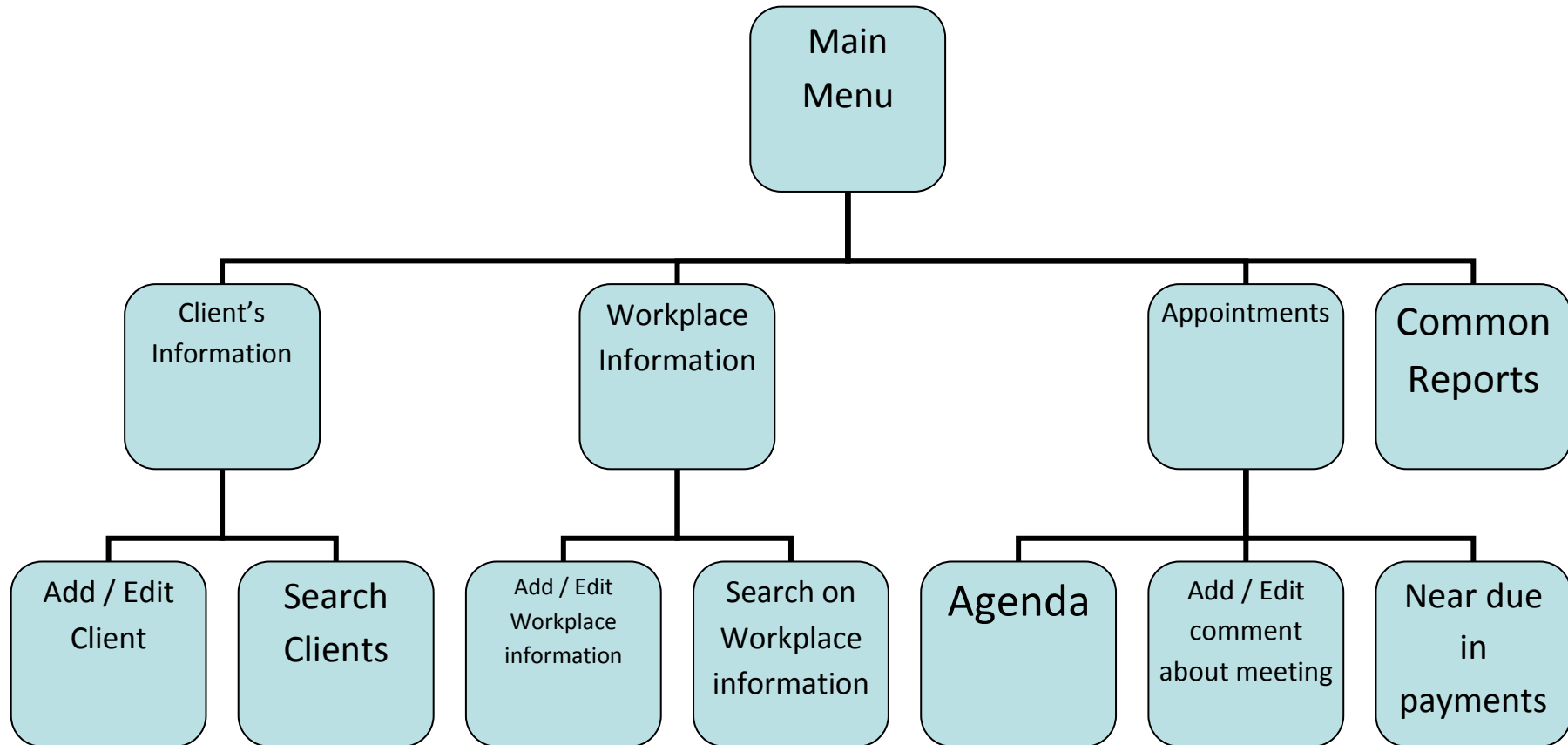
Overall Structure of the Database:

The tables which are shown below express the tables that will be used inside the database and their relationships with one another.



Overall structure of Database

This diagram shows the hierarchy of the switchboard system which will appear as soon as the database is opened. This is not the screen layout.



Internal structure

The tables shown below give the details about the types of data that will be input in each table.

Client's Information Table:

Field name	Data type	Validation Rule(s)	Default Value	Indexed?	Required?
Client ID (PK)	AutoNumber		N/A	Y	Y
First Name	Text		N/A	N	Y
Middle Initial	Text	= to 1 character	N/A	N	N
Last Name	Text		N/A	N	Y
Cellphone Number	Number		N/A	N	Y
E-Mail Address	Text		N/A	N	N

Client's Workplace Table:

Field name	Data type	Validation Rule(s)	Default Value	Indexed?	Required?
Workplace ID (PK)	AutoNumber		N/A	Y	Y
Client ID (FK)	Number		N/A	Y	Y
Workplace	Text		N/A	N	Y

Name					
Workplace Address	Text		N/A	N	Y
Workplace Number	Number		N/A	N	Y

Appointment's Table

Field name	Data type	Validation Rule(s)	Default Value	Indexed?	Required?
Appointment ID (PK)	AutoNumber		N/A	Y	Y
Date	Date/Time	Lookup from a calendar	N/A	N	Y
Workplace Name (FK)	Text		N/A	Y	Y
Cellphone Number (FK)	Number		N/A	Y	N
Reason	Text		N/A	N	N
Payment Type	Text	Lookup (options are: 'Credito' and 'De contado')	N/A	N	N
Comment	Memo		N/A	N	N

Form Design

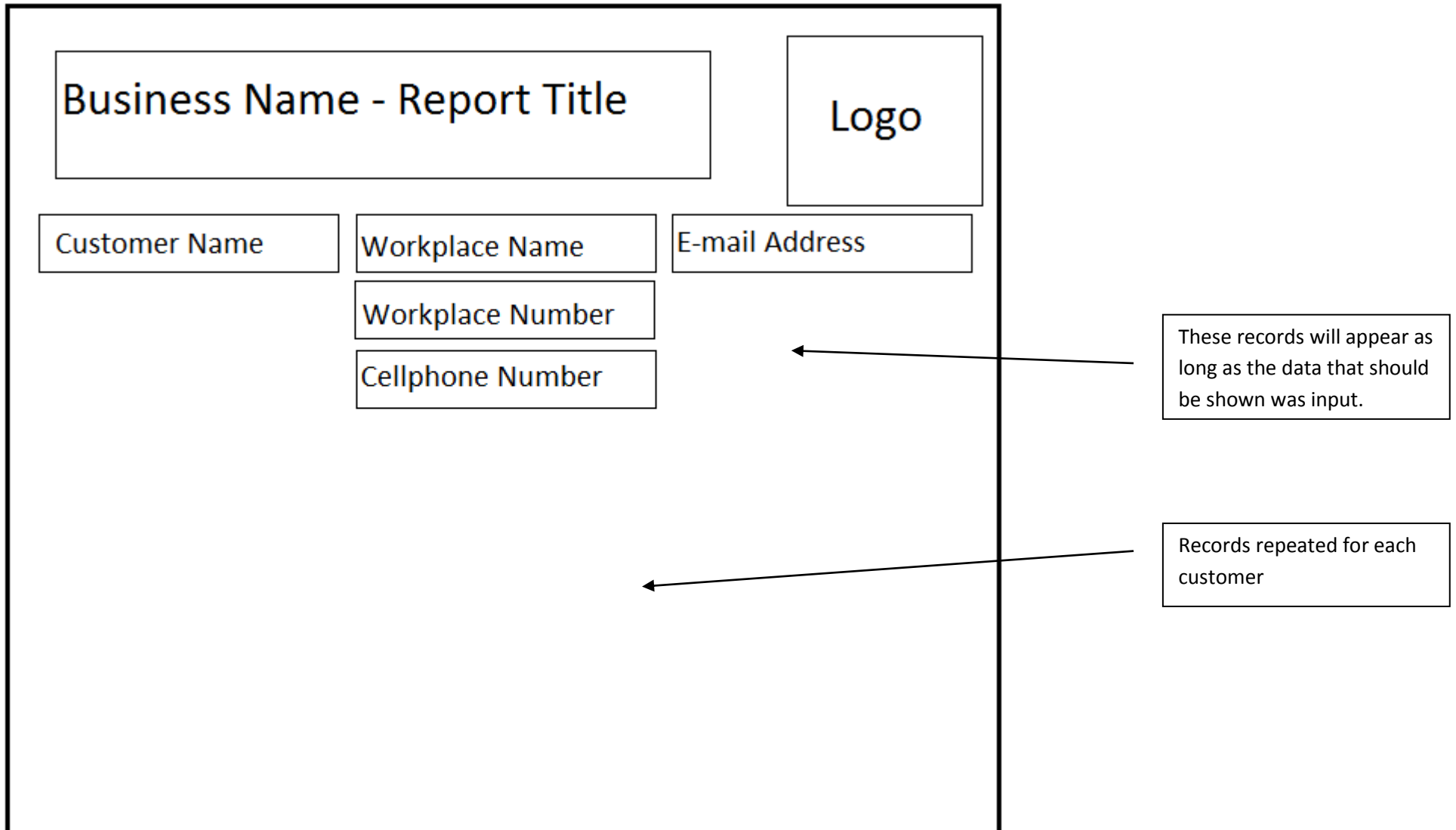
The image below shows the layout of the majority of the forms in the system. Although the exact fields displayed will vary from form to form, the layout will be kept as consistent as possible across forms, in order to improve usability.

The diagram illustrates a form layout with the following components and annotations:

- Header:** A dark red bar containing a **Logo** on the left and a **Business name** field on the right. An annotation points to the **Business name** field, stating: "Text (white) on a dark red background (client's choice)".
- Form Body:** A white area containing several input fields:
 - ID:** A small input field.
 - Name:** A large input field. An annotation points to it, stating: "Text (black) on a white background".
 - M. Initial:** A small input field.
 - Last name:** A medium-sized input field.
 - Cellphone:** A small input field.
 - E-mail address:** A large input field.
- Navigation and Record Buttons:** Located at the bottom of the form:
 - 1st Record:** A button on the right side.
 - Last Record:** A button on the right side. An annotation points to the form body, stating: "Form background - white".
 - Close:** A button at the bottom right. An annotation points to it, stating: "Navigation and record operation buttons in the same place on each form, for consistency."
 - Erase, Prev., Next:** Three buttons at the bottom left.

Report Design

This is the sketch that shows the layout of the “Customer Information” report which lists the customers with their respective information.



List of resources and techniques

Resources	Details
Business logo	This will be supplied by Mrs. Alas as a JPEG image.
Sample data (payment type, contact details and appointments)	This will be taken from the appointments schedule Mrs. Alas has.

Techniques	Details
Three or more related tables	In this database I'll be using 3 tables to store all the necessary information for Mrs. Alas
Proficient use of techniques to enable easy navigation such as menus or buttons	In order to make this database user-friendly I'll use easy to understand buttons and menus with a medium-large font in every form and include a main switchboard which will allow easy navigation through the database.
Proficient design of reports and/or forms	The forms and reports will be made so they include everything Mrs. Alas needs, as well as a consistent layout.
Complex queries/calculated fields	The queries to identify specific clients and their payment type will require multi-table queries.
Three data types (basic technique)	The data types that are being used are: Auto number, text, number, date/time, and memo.
Data Validation (basic technique)	Validation rules, input masks, lookups, and properties e.g. "Required" are used throughout the database.

Use of graphics (basic technique)	The forms, reports, and switchboard will contain the business logo at the top right corner.
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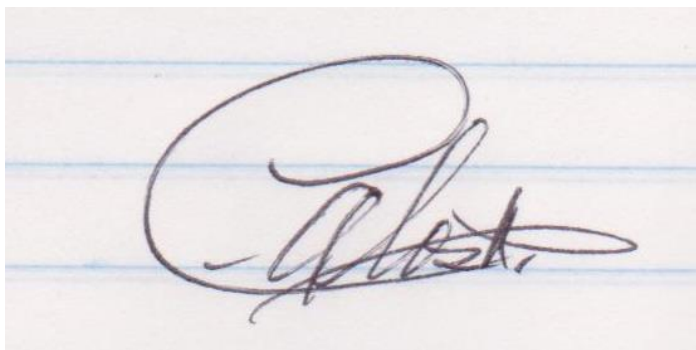
Test plan

Test item	Test data	Part of system tested	Expected outcome	Actual outcome	Comments	Ref in product
Cover page testing – REQUIRED ELEMENT FOR CRITERION G						
Web pages load from the cover page in three different locations	File naming to ensure home page is called Index.htm	Links on cover page are relative	Loads as required from 3 different locations			
Product testing						
Database Tables	Valid and invalid data for each field	Tables, validation rules, input masks	Give an error message if the data is invalid, and continue if it's valid.	No error message displayed.	Even though there's no error message the system won't let the user keep typing. (Middle name initial)	
Queries	Criteria (various)	Queries	The records which match with the criteria are shown, else is expected to hide.	The records which match the criteria are shown.		
Forms	Adding, removing and navigating through records	Forms	Every single record should be able to navigate between each other.	The navigation menu has the ability to switch between each form.		

Reports	Run the report	Reports	The formatting should be correct and all records should be included	All of the records that have to be shown, are shown.	The records are shown in the order they have been input.	
Validation	Logging into the database	Tables	If the password is correct the user should be able to edit, if not, it will display an error message.	An error message is displayed if the password is wrong, else, the user is able to access everything.	With the password: 'mariacon' the user is able to access the database.	

Agreement of client

I confirm that the requirement specification meets my needs and the designs above are appropriate for the creation of the product.



(Mrs. Alas)