

# **HRIS System Implementation**

## **KIT206 Software Design and Development**

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Mitch Long - 420261

Maxwell Vincent - 631180

Jack Westcott - 417552

## 1. Implementation Details

Below is a tabular representation of the main operations of the system, and who implemented those operations.

Function	Name	Student ID
Add staff details	Daniel Broadby	584855
Edit staff details	Daniel Broadby	584855
Add class	Mitch Long	420261
Edit class	Mitch Long	420261
Add consultation	Maxwell Vincent	631180
Edit consultation	Maxwell Vincent	631180
Remove consultation	Jack Westcott	417552
Add Unit/Attach coordinator	Jack Westcott	417552

The table is a rough estimate of who completed which function/view. There was a lot of group work within the prototyping and implementation phases with everyone helping each other to complete the functions required.

For add and edit staff details, the system first checks if that staff member exists in the database, and then adds or edits the details inputted into the application. Add and edit class will first check if a class exists and will also check if that class clashes with any other classes or consultations before it is added or edited. Add and edit consultation will do something similar by checking any clashes with other consultations, and by also checking that the new/edited consultation does not clash with any classes that the given staff member is teaching. Remove consultation simply requires entering the consultation details of the consultation you wish to be deleted. Add unit will add a unit to the database, with an attached unit coordinator – this unit coordinator must exist in the staff database, or the unit will not be able to be added. A unit's coordinator may also be changed – again, this coordinator must exist in the staff database, or the new coordinator will fail to attach.

Further changes were made to the proceeding prototype, such as a list view of classes for the class window, consultations for the consultation window, staff for the staff window and units for the unit window. This allows for users to use the functions in the application without having to directly look at the database.

## 2. System Prototype

The drawing of the prototype underwent two phases. First, we drew our preliminary sketch to give us a rough idea as to what we wanted our app to look like, and then we designed our final prototype after identifying the design elements available in Visual Studio to help us achieve a realistic design when building our application.

### Preliminary Sketch

#### 1. Staff

First page after logging into HRIS - Note that the "Home" tab is highlighted to show that the user is on the "Home" tab.

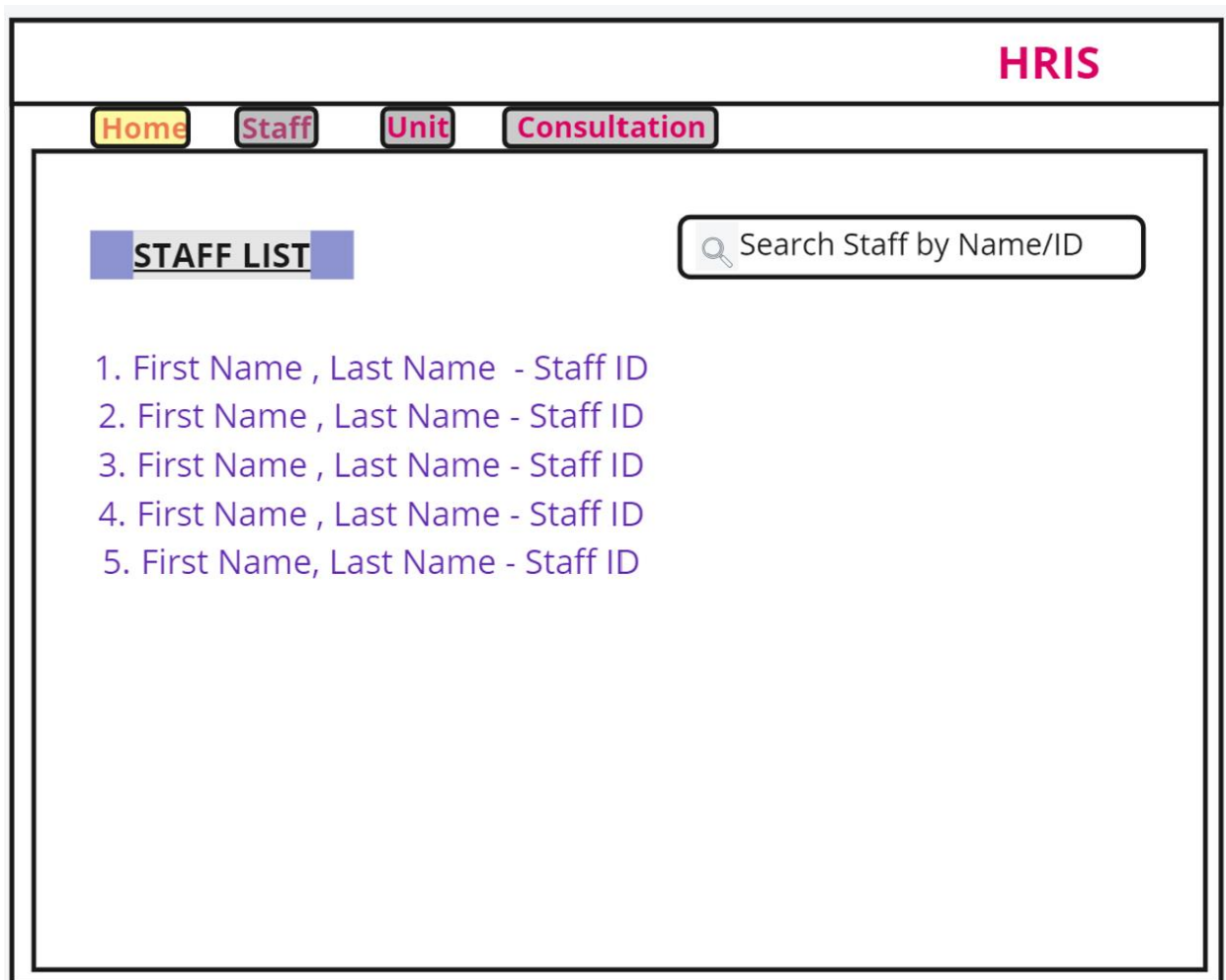


image 1

- A staff member can be selected from the interactive staff list as in the image above (image 1) which would then direct the user to the staff tab (image 2).

Note: Staff is highlighted to show the user is in the staff tab.

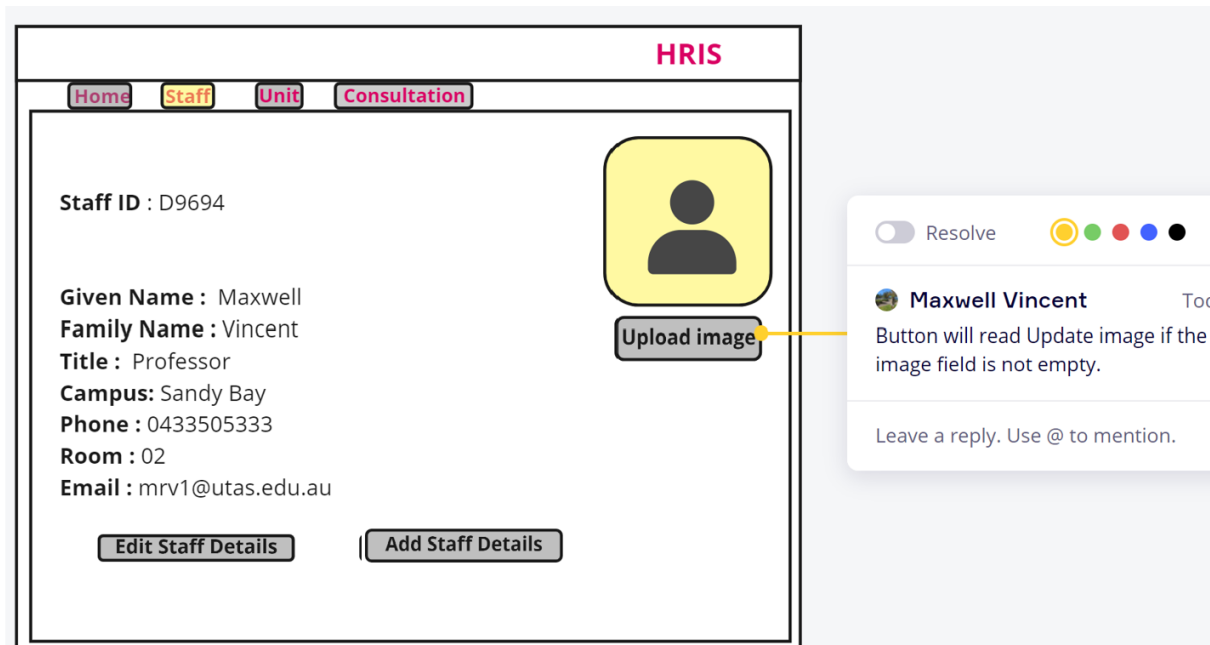


Image 2

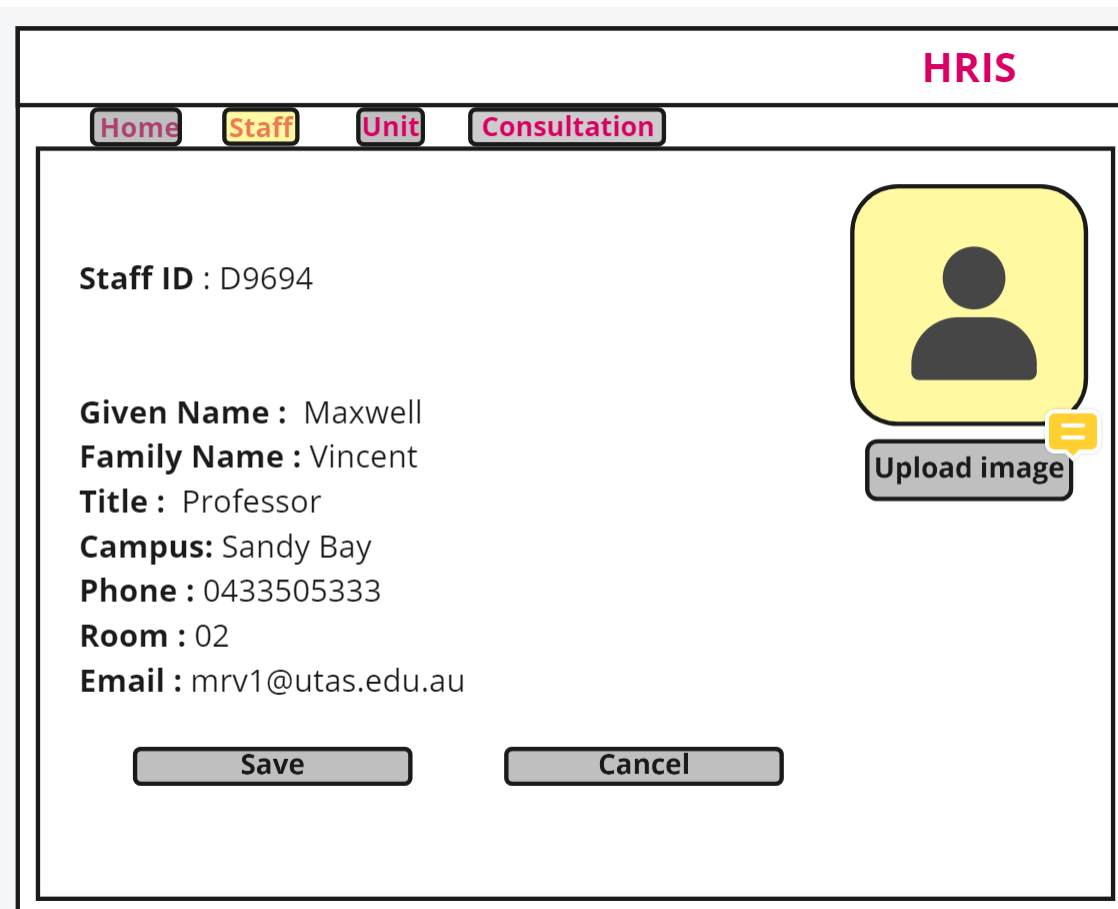


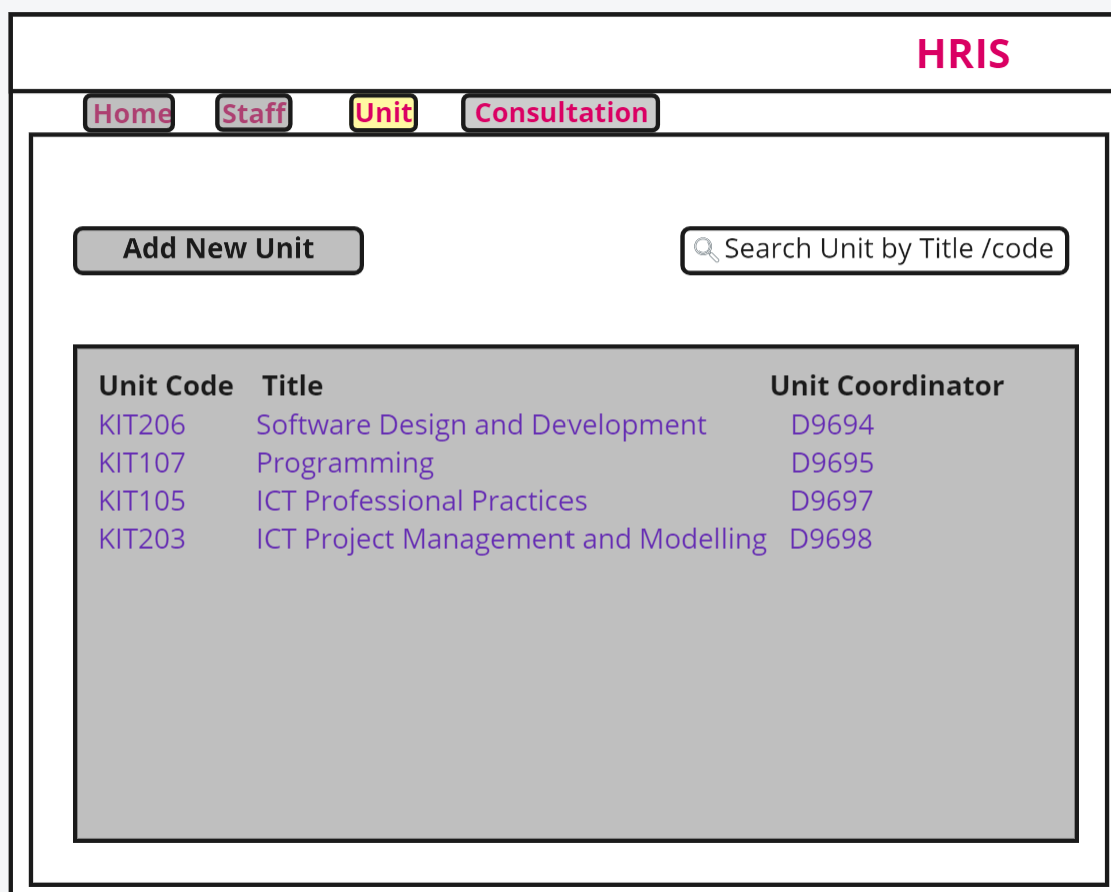
Image 3

Buttons:

- \*Edit staff details – Enables staff details to be edited where fields have already been filled.
- \* Add Staff details – Enables staff details to be added to empty fields that have not been filled.
- \*Upload image – Enables user to upload a jpg, jpeg or png image format (If an image exists upload image should read update image). Provides the user the option to upload an image from the local disk.
- \*Save – Saves and adds new or updates edited info.
- \*Cancel – Undo added/edited staff data.

## 2. Unit

Existing Units can be viewed, and new units can be added by selecting the Unit tab.



Unit Code	Title	Unit Coordinator
KIT206	Software Design and Development	D9694
KIT107	Programming	D9695
KIT105	ICT Professional Practices	D9697
KIT203	ICT Project Management and Modelling	D9698

Image 4

Buttons

- \* Add new Unit – Allows the user to add a new unit by creating a new field in the list of units. A unit Coordinator and Unit code are necessary to create a new unit.

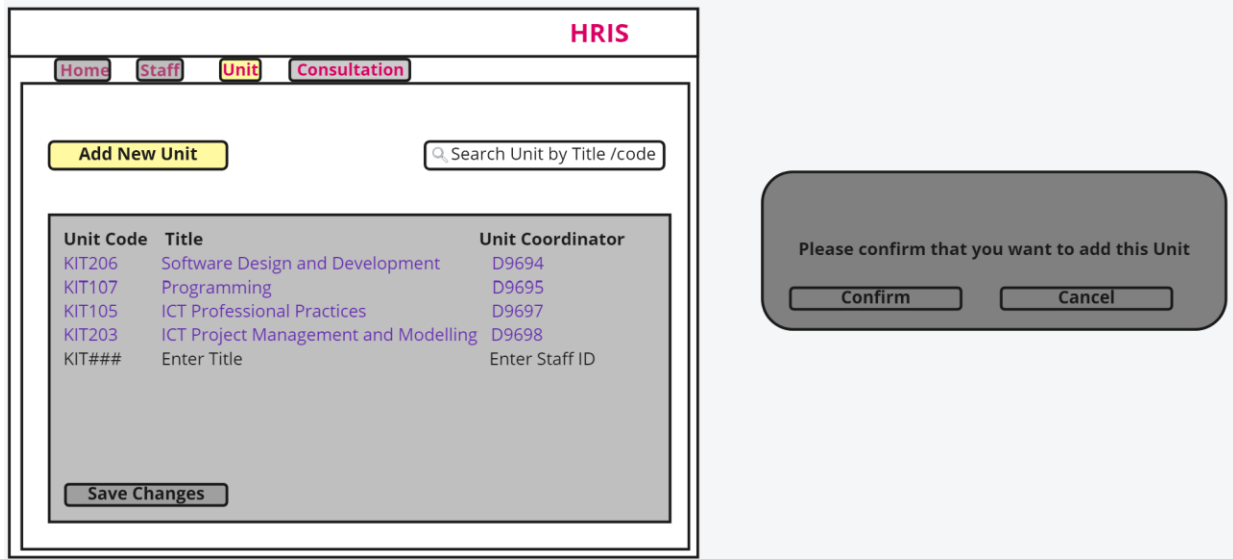


Image 5

### 3. Consultation

Create consultation for staff member by selecting the consultation tab. To add a consultation, select add consultation (image 6). To edit or cancel a consultation, select the consultation hyperlink that you want to edit/cancel and press the relevant button to edit/cancel (image 7).

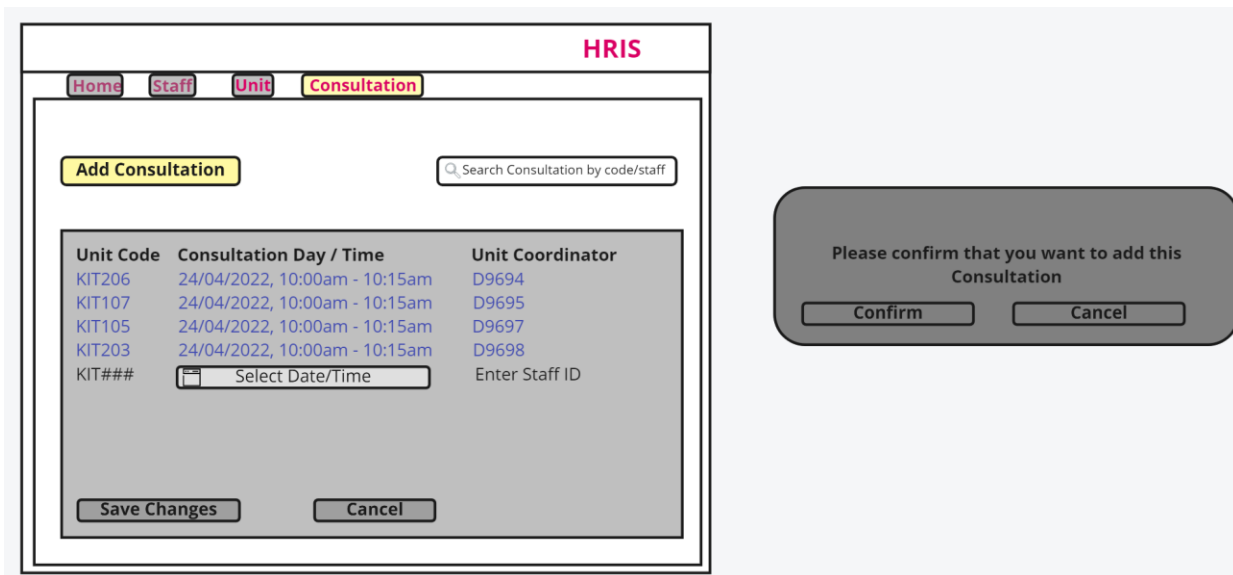


Image 6

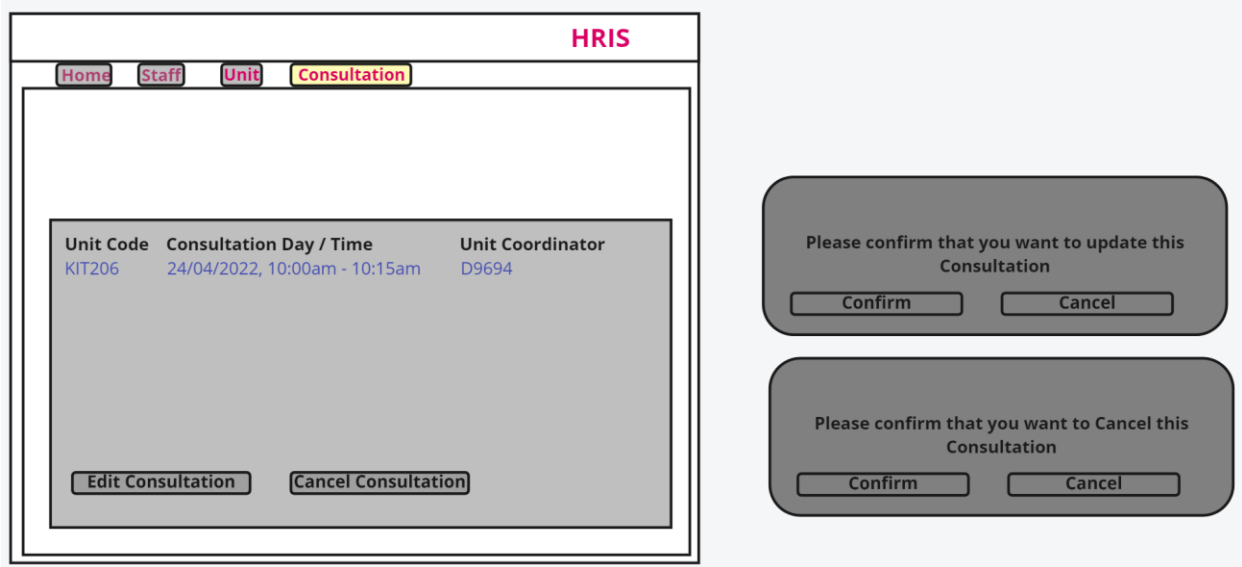


Image 7

## Student

A student will see the following upon logging into the account (image 8). The "Home" tab shows all classes that the student has booked. The user can select a class by pressing on the hyperlink to edit that class.

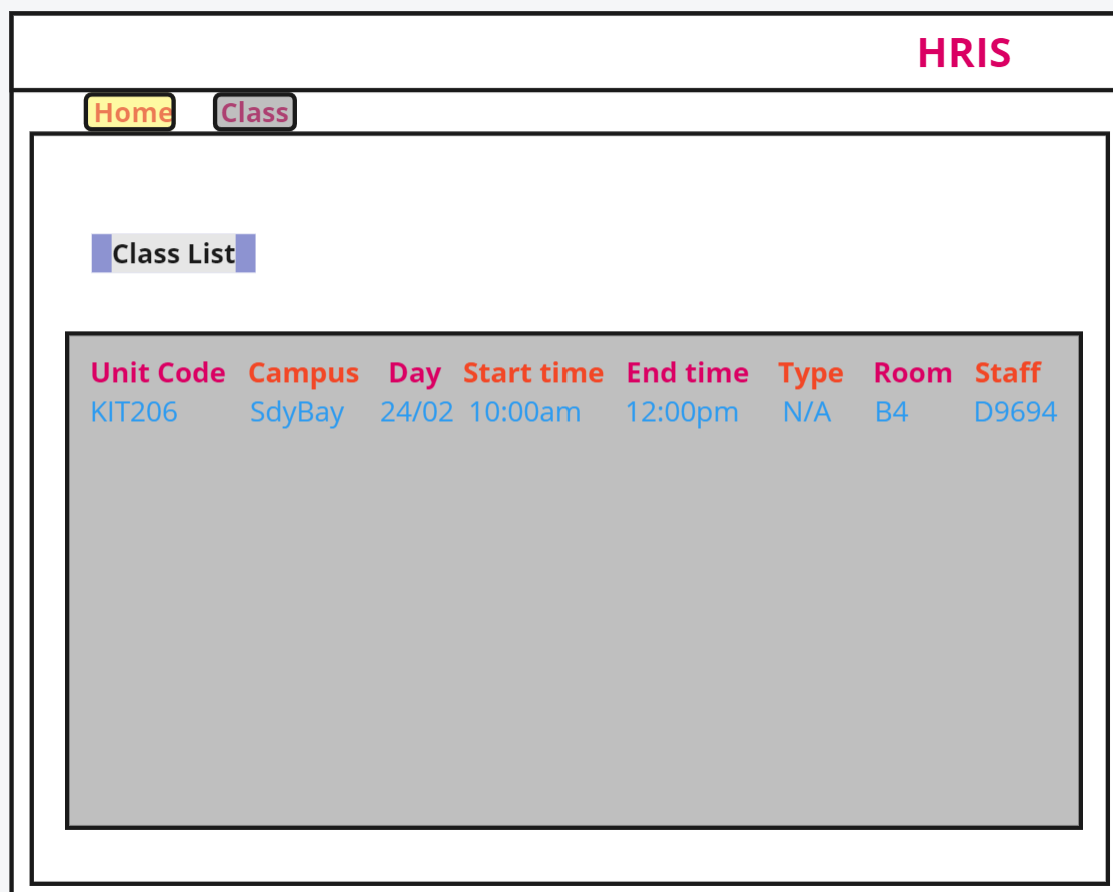


Image 8

HRIS

Home

Class

Edit View

Unit Code	Campus	Day	Start time	End time	Type	Room	Staff
KIT206	SdyBay	24/02	10:00am	12:00pm	N/A	B4	D9694

Save Changes

Cancel

Image 9

The user will see the above (image 9) when in edit view.

- The user can select the class tab and select add Class to create a new class (image 10). Add class will provide a similar view to the “Home” tab in how the class info is displayed. The key difference is that a new class can only be created by accessing the Class tab.



HRIS

Home

Class

Class View

Add Class

Unit Code	Campus	Day	Start time	End time	Type	Room	Staff
KIT206	SdyBay	24/02	10:00am	12:00pm	N/A	B4	D9694

Save Changes

Cancel

Image 10

### 3. Final Prototype

#### Home View

We realized we could use grids to interact with the staff list and so made changes to our prototype accordingly. The Home view was re-designed and should look like the below image in the final product.

HRIS													
HOME													
	ID	Given Name	Family Name	Title	Campus	Phone	Room	Email	Photo	Category	Consultants	Classes	Unit
Staff	12345	Maxwell	Vincent	Dr	SandyBay	0400000000	1	data@gmail.com	#URL link	##	##	##	KIT206
Class													
Consultation													
Unit													

The home page will contain a data grid containing an overview of all staff information such as ID, Given Name, Family Name, Title, Campus, Phone, Room, Email, and Category.

The Staff, Class, Consultations and Unit tabs were moved to the left-hand side of the app to allow for a more pleasing and aesthetic look. Each Button on the left menu will navigate the user to its individual respective window for additional functions.

## Staff Window

Staff

Add

Edit

ID

Title

Campus

Photo

Phone

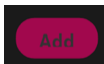
Room

Email

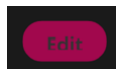
ID	Given Name	Family Name	Title	Campus	Phone	Room	Email	Photo	Category	Consultants	Classes	Unit
12345	Maxwell	Vincent	Dr	SandyBay	0400000000	1	data@gmail.com	#URL link	##	##	##	KIT206

Selecting the staff button on the Home-View Window should navigate the user to the Staff Window which contains the Add/Edit Staff information functions.

As described in the design Specifications the user should be able to Add Campus, Phone, Room and email for a specific staff member. This can be achieved by filling in the Staff ID that requires addition of the above information, filling in said information and selecting the Add button



to add the information to the database. Likewise, the user can enter the staff ID and proceed to Edit the Title and Photo of the staff member by filling in the Title, Photo fields and



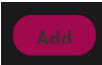
selecting the Edit button. Staff ID will be a universal field for both buttons in this window.

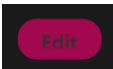
A similar data grid has been added into the staff view window to allow the user to see the changes made to the staff details. This list will contain the exact same information as displayed in the home view.

## Unit Window

Selecting the Unit button on the Home-View Window should navigate the user to the Unit Window which contains the Add/Edit Unit information functions.

The image shows a dark-themed window titled "Unit". At the top, there are two red buttons: "Add" on the left and "Edit" on the right. Below the "Add" button, there are three white input fields stacked vertically, labeled "Unit Code", "Unit Title", and "Unit Coordinator" from top to bottom. Below the "Edit" button, there is a single white input field labeled "Unit Coordinator".

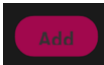
The Add/Edit buttons in this window will work similarly to the add/edit buttons in the staff window. The User should be able to enter the Unit Code, Unit Title and Unit Coordinator and select the Add button  to Add a new Unit.

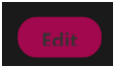
The Edit button  can be used to edit the Unit Coordinator of an Existing Unit by filling in the Unit Code under the Add button and entering the new Unit Coordinator in the Unit Coordinator field under the Edit button. Unit Code will be a universal field for both buttons in this window.

## Consultation Window

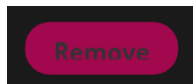
Selecting the Consultation button on the Home-View Window should navigate the user to the Consultation Window which contains the Add/Edit Consultation information functions. An additional function introduced here is the remove consultation function.

The screenshot shows a dark-themed window titled "Consultation". At the top, there are two red buttons: "Add" and "Edit". Below these, there are two columns of input fields. The left column has labels "ID", "Day", "Start", and "Finish" next to their respective white input boxes. The right column has labels "New Day", "New Start", and "New Finish" next to their respective white input boxes. At the bottom center, there is a red "Remove" button. Below the "Remove" button, there is a small text instruction: "Remove Consultation by pressing the remove button".

The Add/Edit buttons in this window will work similarly to the add/edit buttons in the staff window. The User should be able to enter the Staff ID, Day, Start and Finish times and select the Add button  to Add a new Consultation.

The Edit button  can be used to edit the Consultation for an existing staff member by filling in the Staff ID under the Add button and entering the new Day, Start and Finish items in the relevant fields under the Edit button. As in the staff view the Staff ID in the consultation view will be a universal field for all 3 buttons in this window.

The remove button works by entering the staff ID under the Add Button and selecting remove

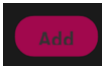


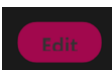
## Class Window

Selecting the Class button on the Home-View Window should navigate the user to the Class Window which contains the Add/Edit Class information functions.

A screenshot of a web application window titled "Class". The window has a dark blue background. At the top, there are two buttons: "Add" and "Edit", both in white text on dark blue rounded rectangles. Below these buttons, the form is divided into two columns. The left column, under the "Add" button, contains input fields for "Staff ID", "Unit Code", "Campus", "Day", "Start", "End", "Type", and "Room". The right column, under the "Edit" button, contains input fields for "New Campus", "New Day", "New Start", "New End", "New Type", and "New Room". Each input field is a white rounded rectangle.

The Add/Edit buttons in this window will work similarly to the add/edit buttons in the staff window. The User should be able to enter the Staff ID, Unit Code, Campus, Day, Start and End

times, Type and Room. and select the Add button  to Add a new Class.

The Edit button  can be used to edit the Class. Here Staff ID and Unit need to be filled in under the Add button and then enter the fields under the Edit button - New Campus, New Day, New Start and New End times, New Type and New room before selecting the Edit button. In this window the Staff ID and Unit Code will be universal fields for both buttons.