



ULTRON III

Elaboration Document

FORAGE

216673380, Emandleni Moyo

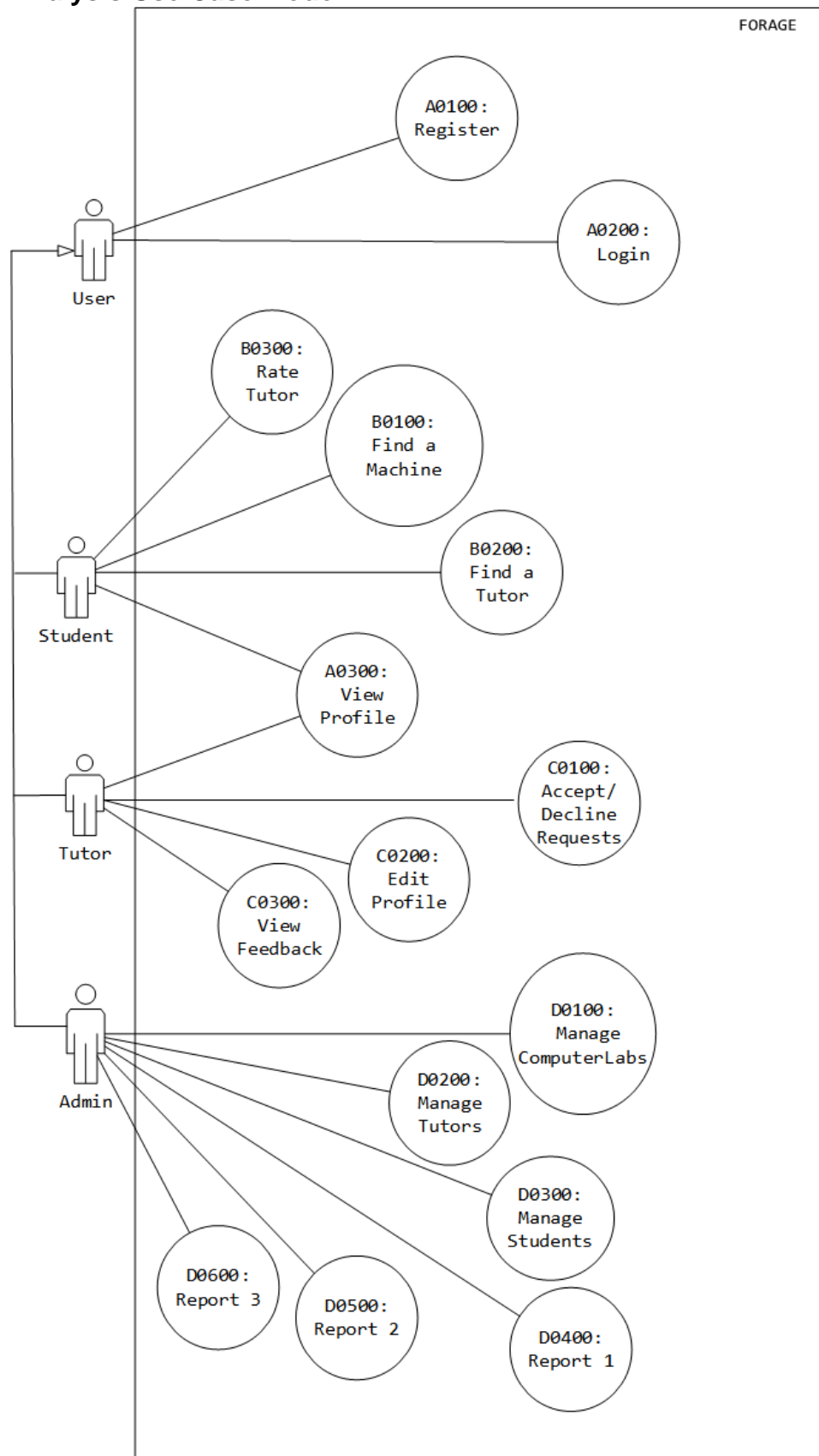
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1 FUNCTIONAL REQUIREMENTS

1.1 Analysis Use Case Model



1.2 Use Case Glossary and Responsibilities

Use Case Id	Use Case Name
A0100	Register
A0200	Login
A0300	View Profile
B0100	Find a Machine
B0200	Find a Tutor
B0300	Rate Tutor
Queries/Reports	
D0600	Report 3: Determine the highest requested module on the system

Use Case Id	Use Case Name
C0100	Accept/ Decline Requests
C0200	Edit Profile
C0300	View Feedback
Queries/Reports	
D0500	Report 2: Determine who is the most requested tutor

Use Case Id	Use Case Name
D0100	Manage Computer Labs
D0200	Manage Tutors
D0300	Manage Students
Queries/Reports	
D0400	Report 1: Determine the number of vacant machines within a specific lab

2 UI Prototypes

2.1 UI Guidelines

Stick to a minimalist approach. Less is more. Adhere to consistency throughout the system designs. Minimise distractions. There are still concerns regarding implementation and the feasibility of some of the functions proposed initially but at least for now retain focus on getting the basics right i.e. getting the user to perform tasks correctly and less about the platform on which the system is deployed.

The UI must be platform independent. Ensure that both the graphic elements and terminology are maintained across platforms. “Sign in” is not the same as “Log in”. In lame man’s terms to “Sign in” means to “Log in” however using different names is clumsy and inconsistent hence it’s frowned upon.

Keep a simple user interface. This reinforces that the system is an educational/ task tool and not a recreational application. The choice of colours used must compliment official Nelson Mandela University colours and the system itself must be consistent with existing university information systems. Nonetheless, the use of these colours must not be over excessive in order to bring about an aesthetic appeal and flair.

Provide the user with controls to filter excess information. Use whitespace to your advantage. You do not want things to be cluttered all on the same screen space and at the same time, you do not want the user to have to tilt their head to look at other parts of the same screen. Elements must be within reach, clearly labelled and actually *visible*.

2.2 UI Designs & Updated Analysis Use Case Narratives

2.2.1 Designed by Emandleni Moyo

Use Case ID	Use Case Name	
A0100	Register	
Primary Business Actors		Other participating Actors
Student, Tutor, Admin		
Description	<p>First time users must register onto the system. If the user is a student or a tutor they register through the mobile application and if the user is an administrator, they must register through the desktop application. When the user is registering through a phone application they have to specify whether they are registering as a student or a tutor. Only first name and last name are required personal entries for the student. A tutor may create a profile in the process of registering and declare even more required personal information. Upon successful registration, the user is automatically signed in onto the system and can use the allocated features of the system dedicated to their needs.</p>	
Pre-Conditions	<p>To register a student must not have registered as a student before, a tutor must not have registered as a tutor before and an admin must not have registered as admin before. The user must have Nelson Mandela University credentials. Credentials are made up of a unique student number (username) appended with an 's' character at the start and password. Student must be registered for a program offered in the computer science department.</p>	
Triggers	<p>Users launches the application and chooses to register. 'Register' button must exist on the app home page</p>	
Post-Conditions	<p>User is registered onto the system</p>	
Basic Flow of Events	<ol style="list-style-type: none">1. User launches the application2. User is taken to the home screen of the App3. User clicks register.4. User is taken to a page with a form to fill in credentials5. User enters credentials in the appropriate spaces6. User clicks on submit.7. A message is shown on screen confirming success or failure of verification.8. User is returned to the home screen	

STUDENT REGISTRATION



First name

Last name

Username

Password

Re-type Password

Register

TUTOR REGISTRATION



First name

Last name

Username

Password

Re-type Password

Qualification



Base Charge

Year of Study

Bio

Describe who you are

Register

2.2.2 Designed by Emandleni Moyo

Use Case ID	Use Case Name	
A0200	Login	
Primary Business Actors		Other participating Actors
Student, Tutor, Admin		
Description	A registered user is able to sign in to the system. Each user must use the credentials that they used to register onto the system with in order to login.	
Pre-Conditions	The User must be registered in the system. 'Login' button must exist on the screen.	
Triggers	User launches the application.	
Post-Conditions	The user is logged in and is able to use their allocated features of the system.	
Basic Flow of Events	<ol style="list-style-type: none">1. User launches the application.2. User is taken to the application log in screen3. User enters credentials in the appropriate spaces4. User clicks login5. User clicks on submit	
Alternate Flow of events	In case of incorrect credentials, an error appears and the user must either try again, or close the application. In case user does not have an account, they are prompted to register.	

Initial UI design

FORAGE



Username

Password

Login


Don't have an account?

Register

2.2.3 Designed by Emandleni Moyo

Use Case ID	Use Case Name	
A0300	View Profile	
Primary Business Actors		Other participating Actors
Student, Tutor		Admin
Description	Student users have the ability to view the profile of potential tutors. This provides an indication of which tutor would provide the best value for money. On the other hand, a tutor user has a view that allows them to update their profile.	
Pre-Conditions	The user must be signed in. 'Find a tutor' button must exist on the student view screen. There must be at least one module. There must be at least one tutor. The list of tutors must be displayed on the screen.	
Triggers	The user must click 'View Profile' on the tutor they are interested.	
Post-Conditions	The selected tutor profile appears on the screen.	
Basic Flow of Events	<ol style="list-style-type: none">1. User clicks on 'Find a Tutor'.2. A list of tutors is displayed on the screen3. User selects to view the profile of a tutor that they are interested in.4. The profile of the tutor is displayed on screen	
Alternate Flow of events	If there are no modules under 'Find a Tutor', then the user will not be able to see any tutors.	

Profile



VectorStock

Jane Doe ★★★★★

Studying: BSc Information Sys

Year: 3

Base Fare: R22 / hour

Can Tutor: WRSC101, WRBP201, WRPV301

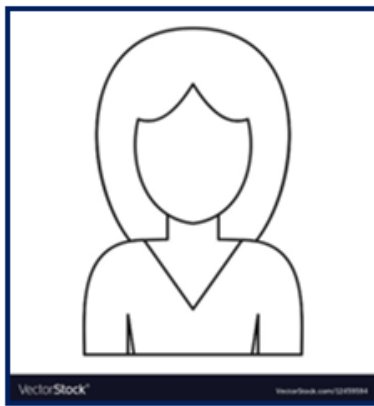
Bio: Fun, loving with a touch of genius =)

[REQUEST](#)

Profile

Requests

Feedback



VectorStock

Jane Doe

Studying: BSc Information Sys

Year: 3

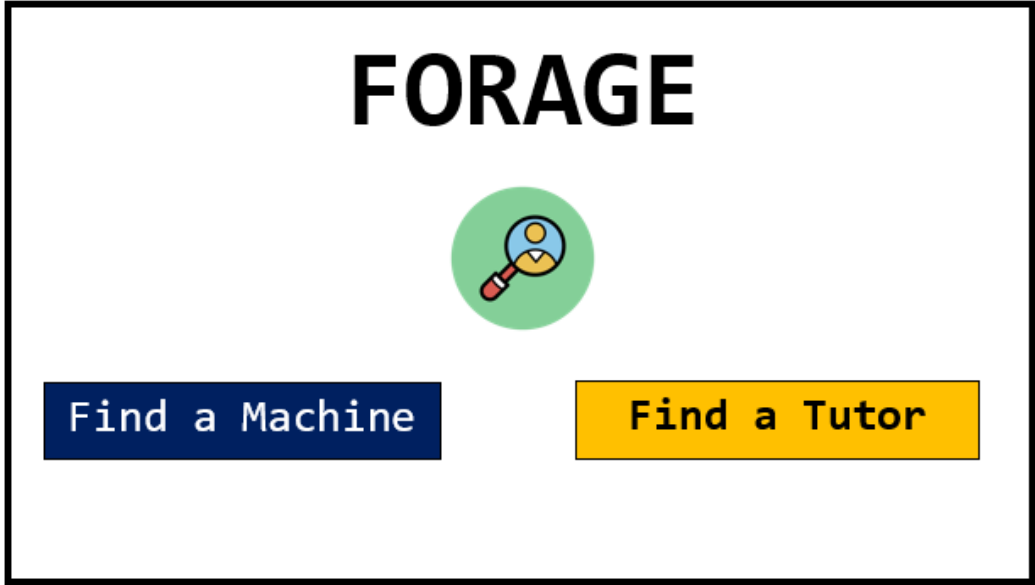
Base Fare: R22 / hour

Can Tutor: WRSC101, WRBP201, WRPV301

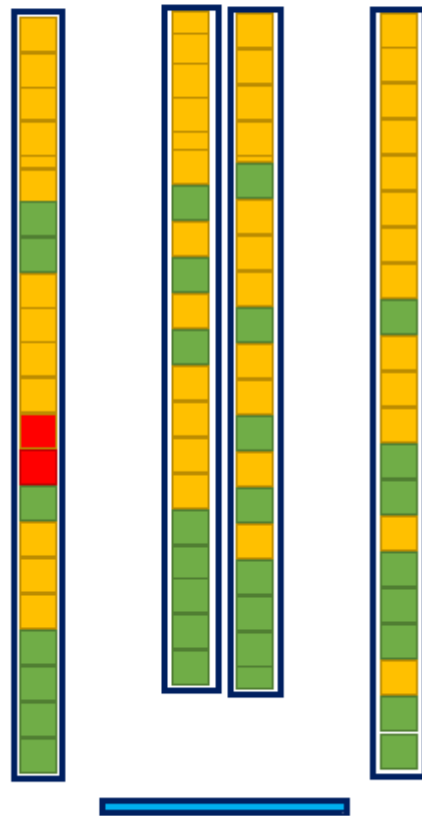
Bio: Fun, loving with a touch of genius =)

[EDIT](#)

2.2.4 Designed by Emandleni Moyo

Use Case ID	Use Case Name	
B0100	Find a Machine	
Primary Business Actors		Other participating Actors
Student		
Description	<p>Students are be able to identify non-vacant workspaces in any one of the computer labs at Embizweni. A student must choose a computer lab to view and be provided with a floor layout plan with all machines. Each machine has a status. Red colour machines are faulty machines, green colour machines are not occupied and are available to use and yellow colour machines are occupied meaning there is another student busy. Labs which are booked/ busy are grayed out and the user will not have access to the information of the machines in that particular lab.</p>	
Pre-Conditions	<p>User must be signed in. A floor layout plan of each one of the labs must be saved on the system. There must be at least one computer lab with at least one machine. The computer lab must not be booked or busy. The 'Find a Machine' button must exist somewhere on the student view screen</p>	
Triggers	Student clicks on 'Find a Machine'	
Post-Conditions	A floor layout plan of a computer lab is displayed with the status of all machines in that particular lab shown and other relevant information	
Basic Flow of Events	<ol style="list-style-type: none"> 1. Student clicks on 'Find a Machine' 2. A list of computer labs is displayed on screen 3. Student must click on a preferred lab 4. A layout of the lab is displayed with the status of computers shown 	
Alternate Flow of events	User might try to click on a busy/ booked lab. However, they will not be able to because the option would not be available.	
Initial UI design		

MACHINES



Lab 1

Lab 2

Lab 3

Lab 4

Lab 5

Lab 6

VACANT 31

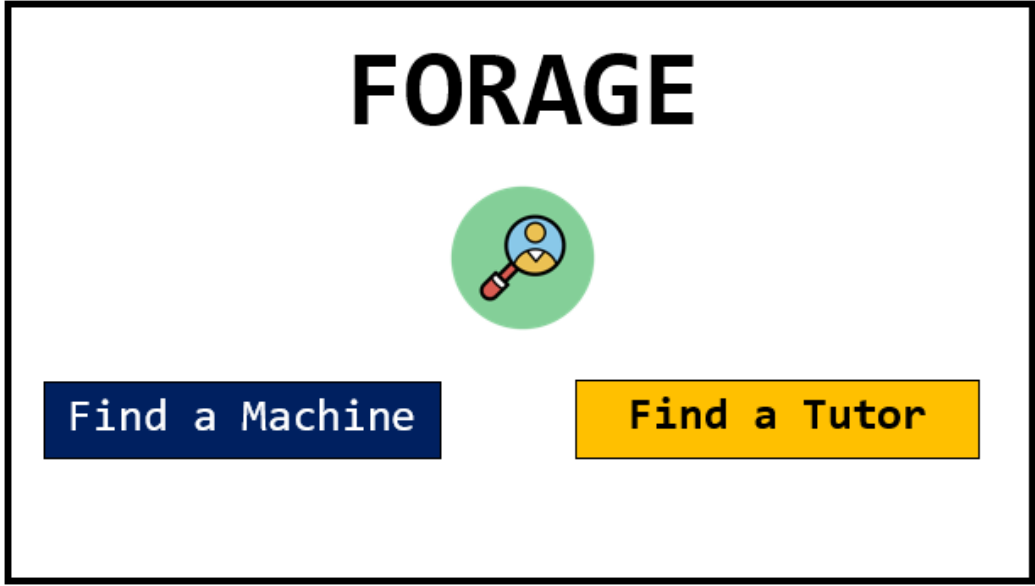
OCCUPIED 50

FAULTY 2

WFRV101 - P

15:03:46 PM

2.2.5 Designed by Emandleni Moyo

Use Case ID	Use Case Name	
B0200	Find a Tutor	
Primary Business Actors		Other participating Actors
Student		
Description	A student must be able to request a tutor on the system for some particular module.	
Pre-Conditions	<p>The student must be signed in.</p> <p>There must be at least one module.</p> <p>There must be at least one tutor.</p> <p>The 'Find a Tutor' button must exist somewhere on the student view screen.</p>	
Triggers	Student clicks on 'Find a Tutor'	
Post-Conditions	A tutorial request is sent to the tutor.	
Basic Flow of Events	<ol style="list-style-type: none"> 1. Student clicks on 'Find a Tutor' button 2. Student chooses the module for which the tutorials are based 3. A list of available tutors appears on screen 4. Student clicks on 'View Profile' of a preferred Tutor 5. A0300 is invoked 6. Student clicks on 'Request' button on the profile view screen 	
Alternate Flow of events	If there are no tutors for the module, the user is presented with no data.	
Initial UI design		

Tutors

WRSC101

WRBP201

WRPV302

WRIV201

WRDV301

WRWS202

Xhanti Mabena

[View Profile](#)

[Rate](#)

Vernon Koekemoer

[View Profile](#)

[Rate](#)

Gilfoyle Jansen

[View Profile](#)

[Rate](#)

Jane Doe

[View Profile](#)

[Rate](#)

Profile



Jane Doe ★★★★★

Studying: BSc Information Sys

Year: 3

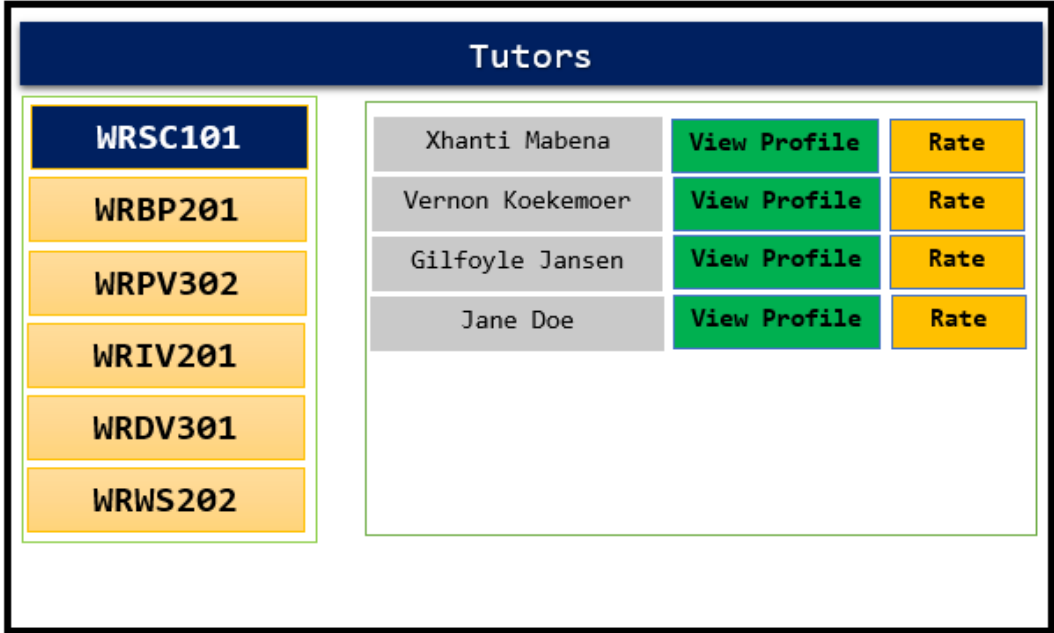
Base Fare: R22 / hour

Can Tutor: WRSC101, WRBP201, WRPV301

Bio: Fun, loving with a touch of genius =)

[REQUEST](#)

2.2.6 Designed by Emandleni Moyo

Use Case ID	Use Case Name																
B0300	Rate Tutor																
Primary Business Actors		Other participating Actors															
Student																	
Description	A student must be able to rate a tutor according to how they feel the service was. The student must provide a comment. The rating is visible to all users. The feedback is only visible to the concerned tutor.																
Pre-Conditions	Users must be signed in. A tutorial must have occurred i.e. the student must have had an accepted request																
Triggers	Student clicks on the 'Rate' button on the list of tutors																
Post-Conditions	Average rating of tutor is updated with the new rating factored in The student cannot rate the tutor again for that module																
Basic Flow of Events	<ol style="list-style-type: none"> 1. Student clicks on 'Rate' button 2. The rate screen view appears and the user is able to adjust the range slider of stars 3. Student must also provide comment feedback 																
Alternate Flow of events	If user does not provide a comment, the submit button does not become active.																
Initial UI design	 <p>The screenshot shows a web interface titled 'Tutors'. On the left, there is a vertical list of tutor IDs: WRSC101, WRBP201, WRPV302, WRIV201, WRDV301, and WRWS202. On the right, there is a table with four rows of tutor information. Each row contains a tutor's name, a 'View Profile' button, and a 'Rate' button.</p> <table border="1"> <thead> <tr> <th>Tutor Name</th> <th>View Profile</th> <th>Rate</th> </tr> </thead> <tbody> <tr> <td>Khanti Mabena</td> <td>View Profile</td> <td>Rate</td> </tr> <tr> <td>Vernon Koekemoer</td> <td>View Profile</td> <td>Rate</td> </tr> <tr> <td>Gilfoyle Jansen</td> <td>View Profile</td> <td>Rate</td> </tr> <tr> <td>Jane Doe</td> <td>View Profile</td> <td>Rate</td> </tr> </tbody> </table>		Tutor Name	View Profile	Rate	Khanti Mabena	View Profile	Rate	Vernon Koekemoer	View Profile	Rate	Gilfoyle Jansen	View Profile	Rate	Jane Doe	View Profile	Rate
Tutor Name	View Profile	Rate															
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Gilfoyle Jansen	View Profile	Rate															
Jane Doe	View Profile	Rate															

Rate



Jane Doe

Studying: BSc Information Sys

Year: 3

Base Fare: R22 / hour

Can Tutor: WRSC101, WRBP201, WRPV301

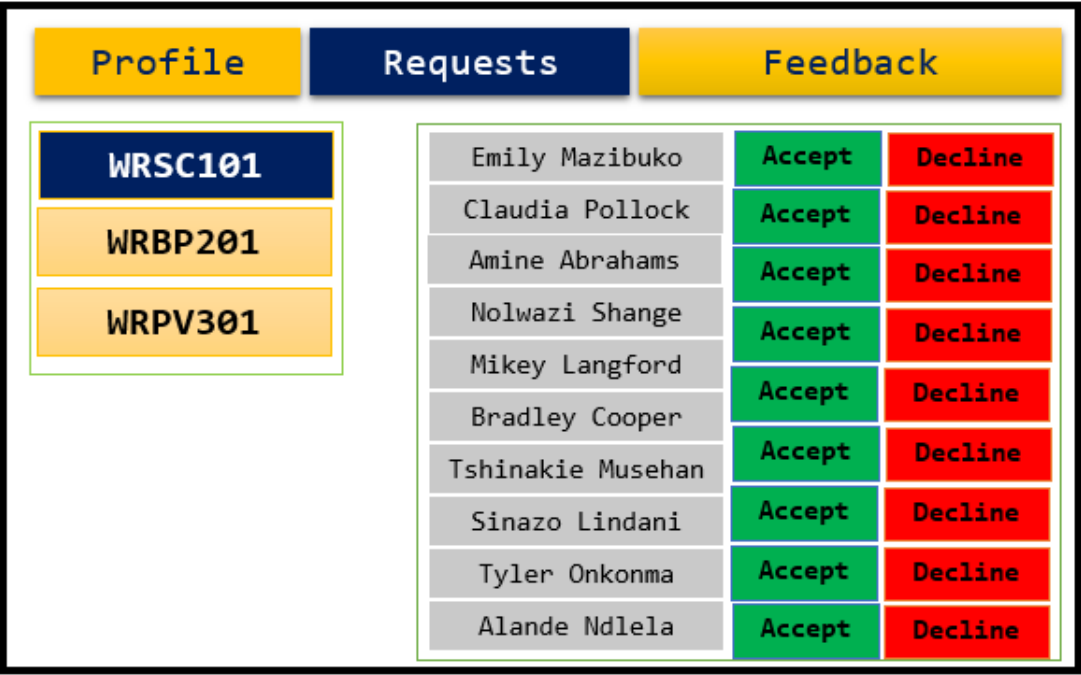
Bio: Fun, loving with a touch of genius =)



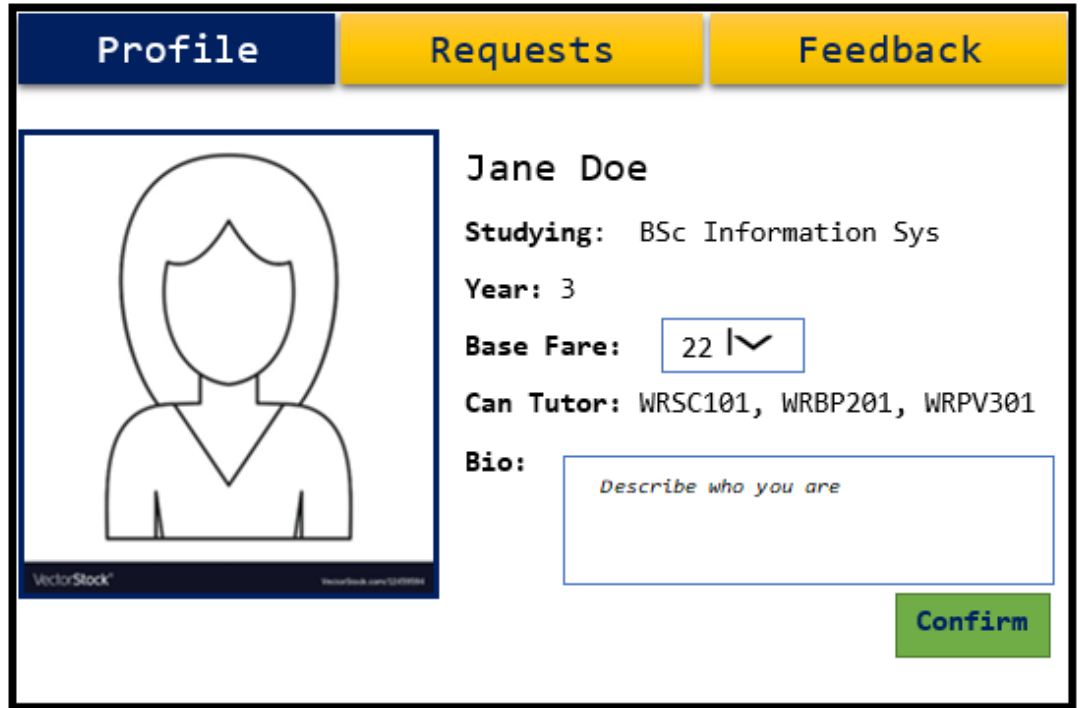
Comment...

SUBMIT


2.2.7 Designed by Emandleni Moyo

Use Case ID	Use Case Name																																		
C0100	Accept/ Decline Requests																																		
Primary Business Actors		Other participating Actors																																	
Tutor																																			
Description	A tutor can either accept or decline a tutorial request from a student.																																		
Pre-Conditions	Tutor must be registered Tutor must be logged onto their account Tutor must have received a request from a student for a tutorial																																		
Triggers	The tutor has to accept or decline a request from a student.																																		
Post-Conditions	Tutor request outcome changes and the student is able to rate the tutor immediately																																		
Basic Flow of Events	1. A0200 is invoked and the tutor lands on the tutorial requests screen 2. Tutor selects the module for which requests are made. 3. Student request is either accepted/ declined for the tutorial 4. The request status changes based on the decision made																																		
Alternate Flow of events	In case user does not have requests, they will be presented with no data.																																		
Initial UI design	 <table border="1"> <thead> <tr> <th>Profile</th> <th>Requests</th> <th>Feedback</th> </tr> </thead> <tbody> <tr> <td>WRSC101</td> <td>Emily Mazibuko</td> <td>Accept Decline</td> </tr> <tr> <td>WRBP201</td> <td>Claudia Pollock</td> <td>Accept Decline</td> </tr> <tr> <td>WRPV301</td> <td>Amine Abrahams</td> <td>Accept Decline</td> </tr> <tr> <td></td> <td>Nolwazi Shange</td> <td>Accept Decline</td> </tr> <tr> <td></td> <td>Mikey Langford</td> <td>Accept Decline</td> </tr> <tr> <td></td> <td>Bradley Cooper</td> <td>Accept Decline</td> </tr> <tr> <td></td> <td>Tshinakie Musehan</td> <td>Accept Decline</td> </tr> <tr> <td></td> <td>Sinazo Lindani</td> <td>Accept Decline</td> </tr> <tr> <td></td> <td>Tyler Onkonma</td> <td>Accept Decline</td> </tr> <tr> <td></td> <td>Alande Ndlela</td> <td>Accept Decline</td> </tr> </tbody> </table>		Profile	Requests	Feedback	WRSC101	Emily Mazibuko	Accept Decline	WRBP201	Claudia Pollock	Accept Decline	WRPV301	Amine Abrahams	Accept Decline		Nolwazi Shange	Accept Decline		Mikey Langford	Accept Decline		Bradley Cooper	Accept Decline		Tshinakie Musehan	Accept Decline		Sinazo Lindani	Accept Decline		Tyler Onkonma	Accept Decline		Alande Ndlela	Accept Decline
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	Sinazo Lindani	Accept Decline																																	
	Tyler Onkonma	Accept Decline																																	
	Alande Ndlela	Accept Decline																																	

2.2.8 Designed by Emandleni Moyo

Use Case ID	Use Case Name	
C0200	Edit Profile	
Primary Business Actors	Other participating Actors	
Tutor		
Description	A tutor can either update or review information on their profile.	
Pre-Conditions	Tutor must be registered Tutor must be logged onto their account	
Triggers	The tutor will choose to update or review the information on their profile.	
Post-Conditions	If changes are made to the tutor profile, fields are updated. The tutor can continue to review the profile, until they navigate to a different part of the system.	
Basic Flow of Events	<ol style="list-style-type: none"> 1. A0200 is invoked 2. The tutor lands on their profile screen 3. Navigate to Requests tab 4. Tutor selects the module for which requests are made 5. Student request is either accepted/ declined for the tutorial 6. The request status changes based on the decision made 	
Initial UI design		

2.2.9 Designed by Emandleni Moyo

Use Case ID	Use Case Name	
C0300	View Feedback	
Primary Business Actors		Other participating Actors
Tutor		
Description	A tutor is able to see the feedback that their provided.	
Pre-Conditions	Tutor must be registered Tutor must be logged onto their account The tutor must have accepted a request from the student from which the feedback is from	
Triggers	The tutor must select on the tab with feedback	
Post-Conditions	The tutor is able to view their feedback	
Basic Flow of Events	1. A0200 is invoked 2. The tutor lands on their profile screen 3. Navigate to Feedback tab	
Alternate Flow of events	In case user does not have feedback, they will be presented with no data.	
Initial UI design		

2.2.10 Designed by Emandleni Moyo

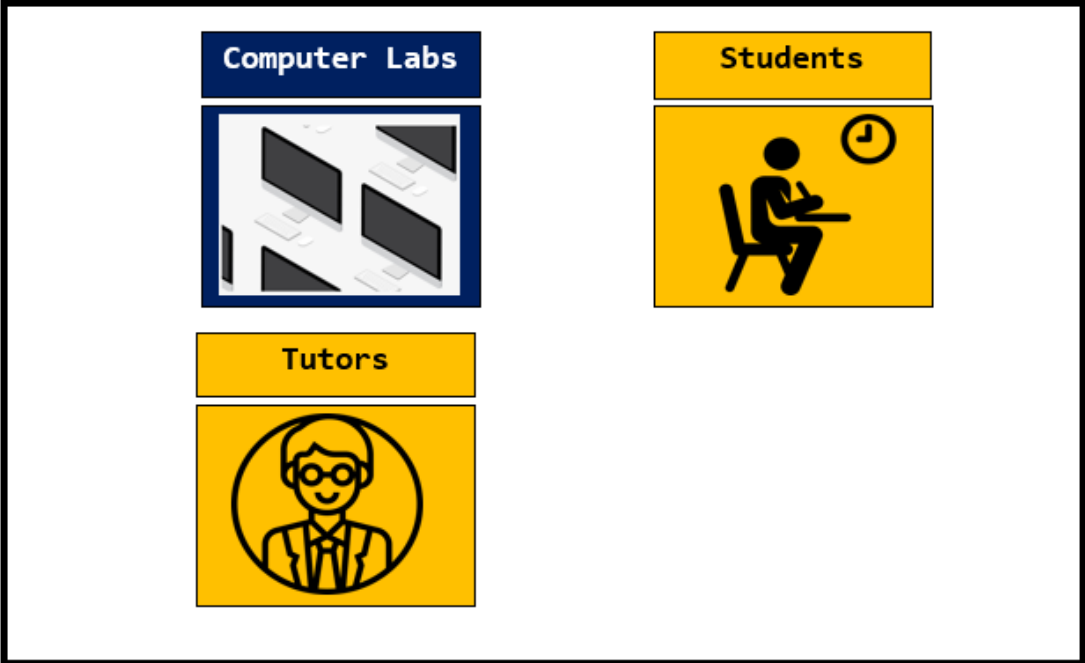
Use Case ID	Use Case Name	
D0100	Manage Computer Labs	
Primary Business Actors		Other participating Actors
Admin		
Description	Administrators have the ability to maintain computer labs within the system. Administrators have the authority to create, view, alter and/or delete computer labs, schedule, machines and the table layout plan of a computer lab.	
Pre-Conditions	<p>The user must be registered on the system.</p> <p>The user must be logged onto the system.</p> <p>The user must be of type admin.</p>	
Triggers	<p>A new computer lab may need to be added or deleted</p> <p>A computer lab's information may need to be updated</p>	
Post-Conditions	<p>A computer lab has been added, updated or deleted</p> <p>A computer labs' schedule has been added, updated or deleted.</p>	
Basic Flow of Events	<ol style="list-style-type: none"> 1. The administrator home screen is displayed 2. The user clicks on "Computer Labs" 3. A list of labs appear together with options to create, update or delete 4. The user must enter new data or manipulate existing data to enable the 'Save' button 5. The user must 'Save' to commit changes onto the system 	
Initial UI design	<p>The diagram illustrates the initial user interface design. It features three primary sections within a large rectangular frame. On the top left, there is a blue header labeled 'Computer Labs' above a square area containing icons of computer monitors and keyboards. On the top right, there is a yellow header labeled 'Students' above a square area containing an icon of a person sitting at a desk with a clock. In the bottom center, there is a yellow header labeled 'Tutors' above a square area containing an icon of a person wearing glasses and a headset. The entire design is presented in a clean, schematic style.</p>	

Lab Number	Description	Capacity	Number of Occupied Seats	Number of Vacant Seats	Status
2211	Lab 1	55	54	1	Free
2212	Lab 2	85	23	62	Busy
2213	Lab 3	40	21	19	Free
2214	Lab 4	35	31	4	Booked
2215	Lab 5	20	19	0	Busy
2216	Lab 6	80	17	63	Free

Lab Number	2211
Description	Lab 1
Capacity	55
Number of Occupied Seats	54
Number of Vacant Seats	1
Status	Free

[New](#)
[Delete](#)
[Refresh](#)
[Save](#)

2.2.11 Designed by Emandleni Moyo

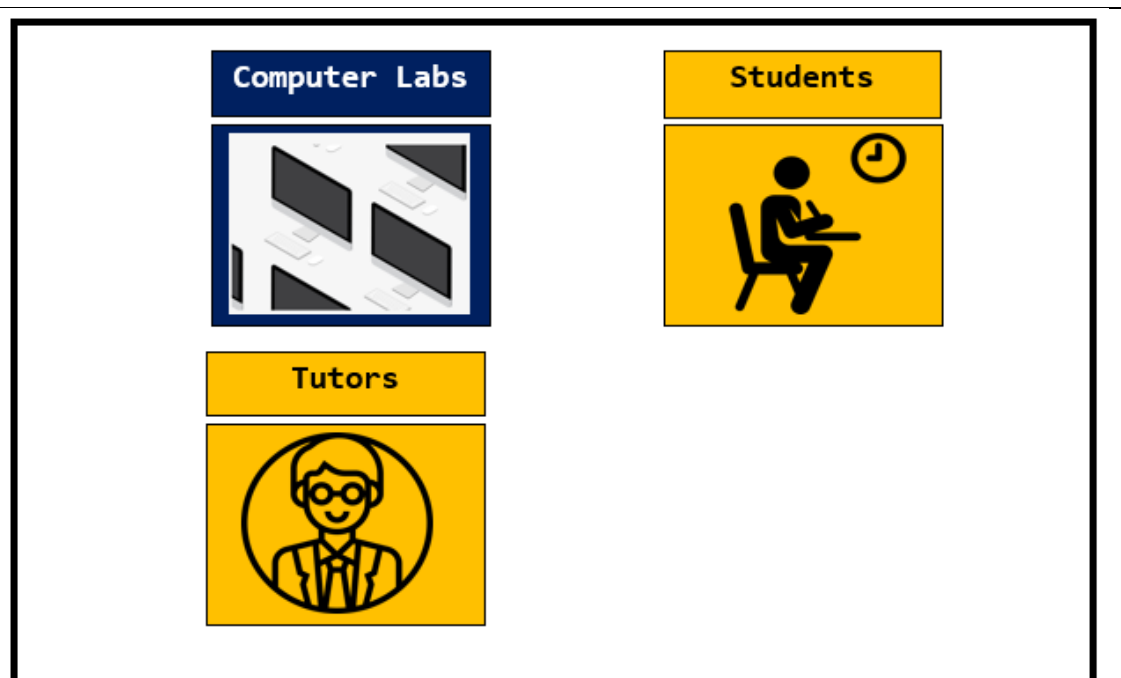
Use Case ID	Use Case Name	
D0200	Manage Tutors	
Primary Business Actors		Other participating Actors
Admin		
Description	Administrators have the ability to maintain tutor information. Administrators have the authority to create, view, alter and/or delete tutor information.	
Pre-Conditions	The user must be registered on the system The user must be logged onto the system The user must be of type admin	
Triggers	Tutor information may need to be verified, altered and/ or deleted	
Post-Conditions	A tutor has been added, updated or deleted	
Basic Flow of Events	1. The administrator home screen is displayed 2. The user clicks on "Tutors" 3. A list of tutors appear together with options to manipulate the data 4. The user must enter new data or manipulate existing data to enable the 'Save' button 5. The user must 'Save' to commit changes onto the system	
Initial UI design		

Username	Password	First Name	Last Name	Qualification Code	Base Charge	Year	Bio
s21111111	isJuicefree?23	Khanti	Mabena	40005	25	3	Great chap...
s21111112	bugsRbad	Vernon	Koekemoer	40001	32	2	I am...
S21111113	%@iLoveSuzie<3	Gilfoyle	Jansen	40005	19	3	Very smart guy...
s21111114	1234panJD	Jane	Doe	40003	22	3	Fun loving with...

Username	s21111114
Password	1234panJD
First Name	Jane
Last Name	Doe
Qualification Code	40003
Base Charge	22
Year	3
Bio	Fun loving with a touch of genius =)

2.2.12 Designed by Emandleni Moyo

Use Case ID	Use Case Name	
D0300	Manage Students	
Primary Business Actors		Other participating Actors
Admin		
Description	Administrators have the ability to maintain student information. Administrators have the authority to create, view, alter and/or delete students.	
Pre-Conditions	The user must be registered on the system The user must be logged onto the system The user must be of type admin	
Triggers	Student information may need to be verified, altered and/ or deleted	
Post-Conditions	A student has been added, updated or deleted	
Basic Flow of Events	<ol style="list-style-type: none">1. The administrator home screen is displayed2. The user clicks on "Students"3. A list of students appear together with options to manipulate the data4. The user must enter new data or manipulate existing data to enable the 'Save' button5. The user must 'Save' to commit changes onto the system	



Username	Password	First Name	Last Name
s2211111	lameFameCame...	Emily	Mazibuko
s2212111	33THRASHERS...	Claudia	Pollock
s2213111	goTeam\$\$\$\$	Amine	Abrahams
s2214111	Ih8f1sh!	Nolwazi	Shange
s2215111	F1shH8sU2	Mikey	Langford
s2216111	newLifeOldMe...	Bradley	Cooper
s2217111	Bec&auseU1isp	Tshinakie	Musehane
s2218111	sinazobabe	Sinazo	Lindani

Username	s2218111
Password	Sinazobabe
First Name	Sinazo
Last Name	Lindani

New	Delete	Refresh	Save
---------------------	------------------------	-------------------------	----------------------

2.2.13 Designed by Emandleni Moyo

Use Case ID	Use Case Name	
D0400	Report 1: Determine the number of vacant machines within a specific lab	
Primary Business Actors		Other participating Actors
Admin		
Description	This use case creates a report for a list of vacant machines within a specific lab	
Pre-Conditions	Admin must be logged onto the system.	
Triggers	User wanted to find out which machines are currently vacant	
Post-Conditions	A report containing the list of vacant machine numbers in a particular lab	
Basic Flow of Events	1. Admin enters query by selecting the computer lab from a drop-down box 2. System produces report.	
Initial UI design	<div><div>Lab 6</div><div>✓</div></div>	
	Machine Number	Machine Status
	612	VACANT
	618	VACANT
	623	VACANT
	624	VACANT
	625	VACANT
	626	VACANT
	631	VACANT
	632	VACANT
635	VACANT	

2.2.14 Designed by Emandleni Moyo

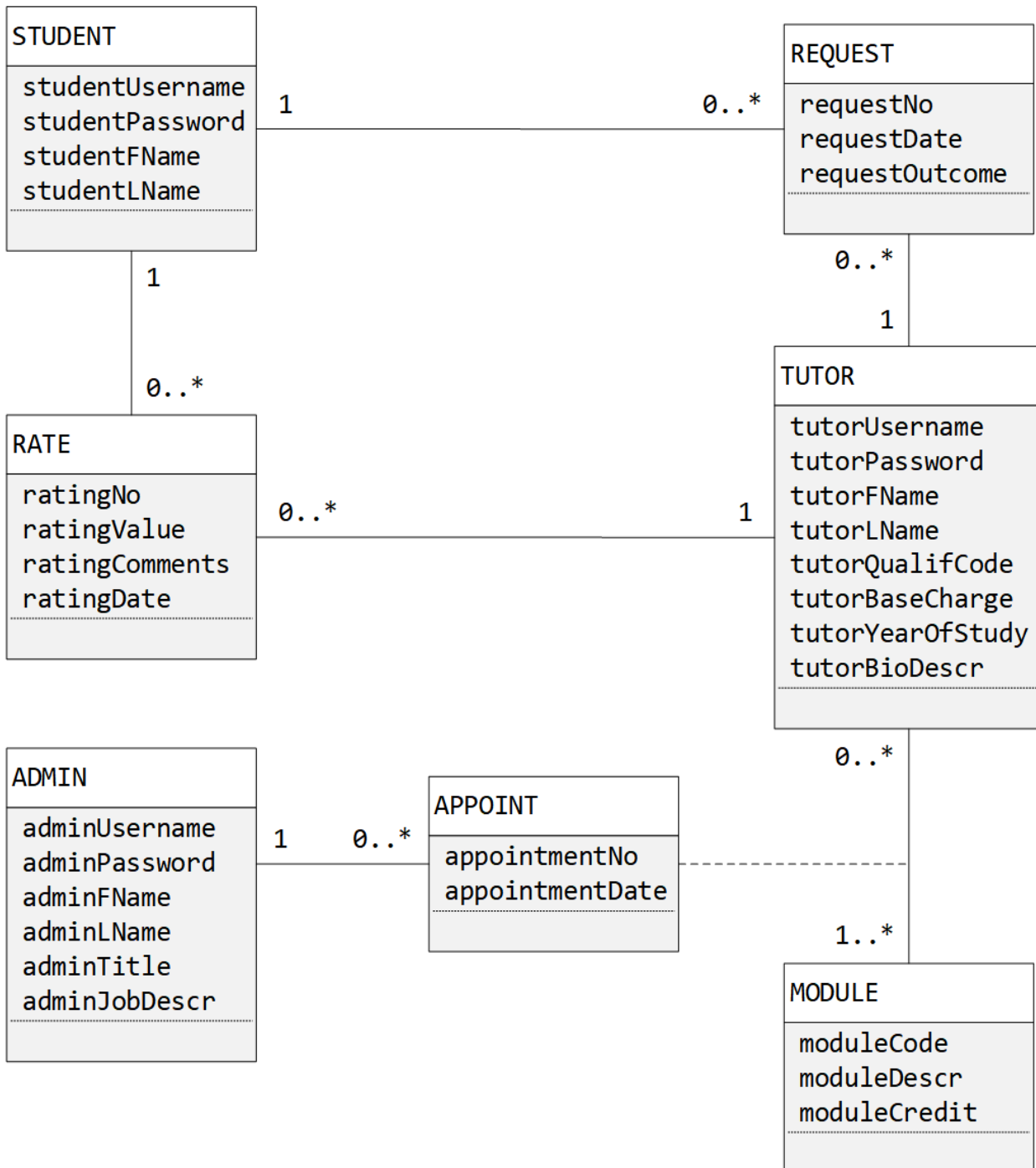
Use Case ID	Use Case Name		
D0500	Report 2: Determine who is the most requested tutor		
Primary Business Actors		Other participating Actors	
Admin			
Description	This use case creates a report for a list of tutors sorted according to their number of requests for a specific module.		
Pre-Conditions	Admin must be logged onto the system		
Triggers	User wants to determine the most requested tutors according to a module		
Post-Conditions	A report containing the highest requested tutor for a module will be emailed to students.		
Basic Flow of Events	1. Admin enters query by selecting the module from a drop-down box. 2. System produces report.		
Initial UI design	<div><div>WRSC101</div><div>▼</div></div>		
	First Name	Last Name	Number Of Requests
	Jane	Doe	10
	Xhanti	Mabena	4
	Vernon	Koekemoer	1
	Gilfoyle	Jansen	0

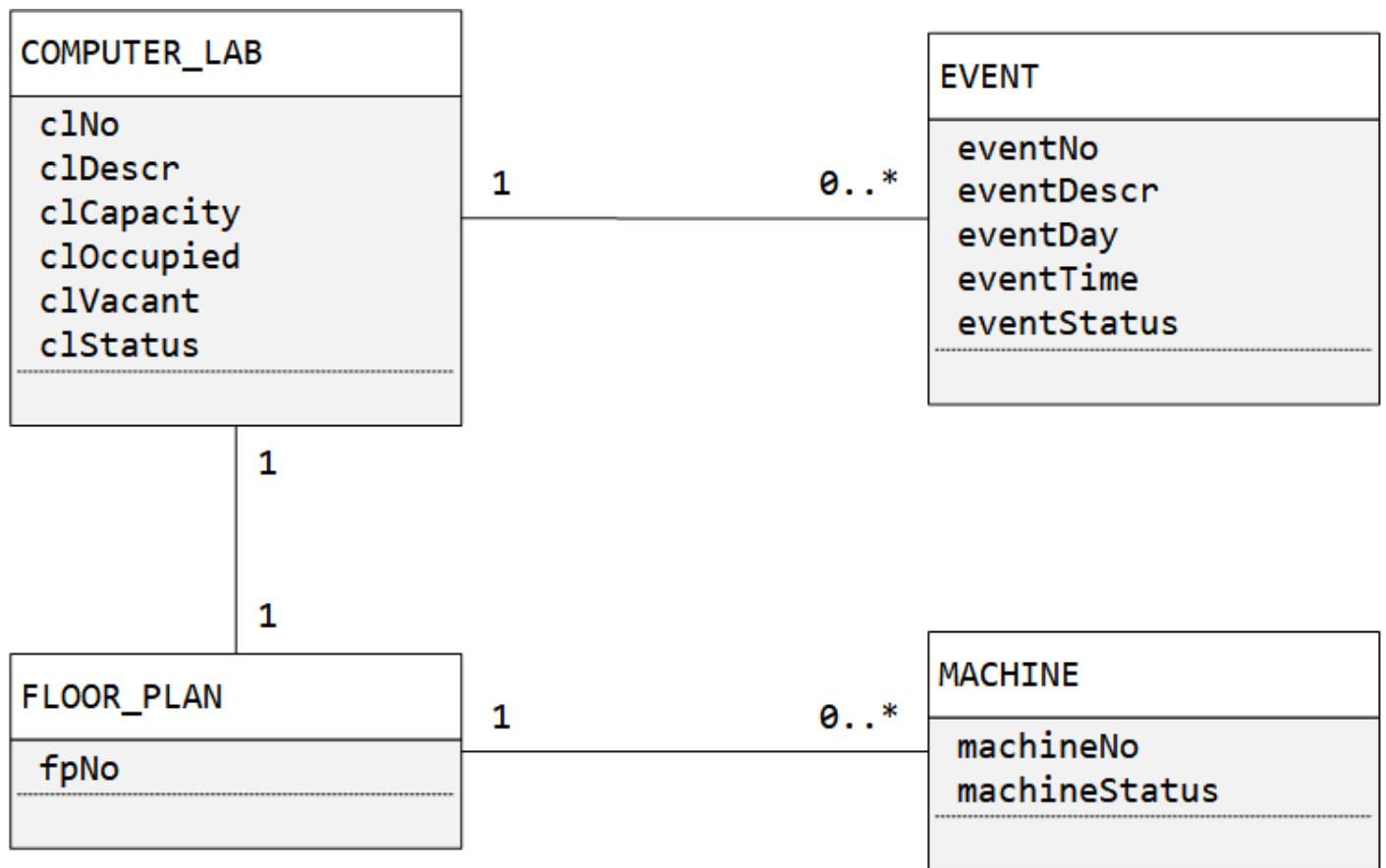
2.2.15 Designed by Emandleni Moyo

Use Case ID	Use Case Name				
D0600	Report 3: Determine the number of requests made for a module on the system				
Primary Business Actors		Other participating Actors			
Admin					
Description	This use case creates a report for a list of requests made for a specific module				
Pre-Conditions	Admin must be logged onto the system				
Triggers	User wants to determine the number of requests made for a module on the system				
Post-Conditions	A report containing the list of requests made for a module in descending order of requests				
Basic Flow of Events	1. Admin enters query by clicking 2. System produces report				
Initial UI design	<div><div>WRSC101</div><div>▼</div></div>				
	Request Number	Student Username	Tutor Username	Request Date	Request Outcome
	1	s22111111	s23111111	03/02/2006	PENDING
	2	s22111112	s23111112	04/02/2006	PENDING
	3	s22111113	s23111113	04/02/2006	ACCEPTED
	4	s22111114	s23111114	07/02/2006	DECLINED

3 DATA REQUIREMENTS

3.1 Domain Class Diagram





3.2 Implementation Ready Class Diagram

