

Applications Development Project 3 –ADPA301-2022
Software Requirements Specification (SRS) – Increment 1

I have read, understood, and agree to the contents of this document. I accept full responsibility for any errors and omissions in this document.

Group number: 10

Group name: CODEX

Reg no	First name	Surname	Sign	Meetings held	Number attended
21535214	PREOLIN	SINGH	p.singh	9	7
21615391	YASHLIN	NAIDOO	y.naidoo	9	8
21638404	RIVAAN	KRISHNADUTT	r.krishnadutt	9	8
21741007	CARISHKA	NAIDOO	c.naidoo	9	9
21953908	ISRAEL	GOVENDER	i.govender	9	8
21956096	ABHYAY	SINGH	a.singh	9	9
22050775	THALENTE	MBUYISA	t.mbuyisa	9	8
22063930	ZAPHI	KHUMALO	z.khumalo	9	9

Business Domain	STUDENT ACCOMODATION HUB E-COMMERCE
Business name	REALITY STUDENT HUB
Contact Person	
Contact number	
Email address	

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1. Executive summary

Reality student hub is a residential and skills developing system that aims to address the accommodation and employment needs of students who choose to pursue education in the city of Durban.

The system intends to provide a trouble-free online platform for students to browse properties for rent and process applications for accommodation whilst finding all necessities of a student life, by acting as a medium between owners and the students.

As well as serving the community of students, property owners will benefit from being able to list and manage the sale of their property for rent/lease on a public platform.

2. Business use cases (*List all Business use cases in sequence*)

No:	Use Case	Brief Use Case Description	responsible	
1.	Manage Listings	The admin can manage all listings on system	abhyay	yes
2.	Manage Jobs	The admin can manage all student jobs available on the system	abhyay	yes
3.	Find Accommodation	Students can find residences for their campus	carishka	yes
4.	Browse Listings	Users can browse through all listing per criteria	carishka	yes
5.	Create Account	Students register as users and can also become trainees using their credentials	israel	yes
6.	Schedule Appointments	Students can contact owners to view accommodation	Israel	no
7.	Review Listing	Students can review the listed accommodation and provide feedback	Thalente	no
8.	Manage Payments	Students can arrange payment for deposit	thalente	yes
9.	Display Methods	Students can select options for payment and can pay via system	abhyay	yes
10	Generate Invoice	Students will receive an email proof of payment	carishka	no
11	Find Jobs	Students can find part-time jobs available close to their residences	abhyay	yes

12	Apply for Job	Students will be able to upload their CV's and apply for available job	rivaan	yes
13	Purchase Devices	Students will be able to purchase devices and stationery required for delivery	preollin	yes
14	Browse Devices	Students can browse through all devices available on the system	yashlin	yes
15	Deliver Order	Students that have purchased devices can choose the delivery option	zaphi	no
16	View Options	Students can choose (express/normal) or pick up	zaphi	yes
17	Manage Payments	Students can make payment for devices	abhyay	yes
18	Display Methods	Students can select options for payment and can pay via system	rivaan	no
19	Generate Invoice	Students will receive an email proof of payment	carishka	no
20	Manage Admin	The admin will manage all system admin process		
21	Manage Listings	The admin will manage all student listings		
22	Manage Applications	The admin will manage the student job applications		
23	Manage Orders	The admin will manage the device orders placed by students		
24	Assign Drivers	The admin will manage drivers		
25	Track Orders	The admin will track drivers progress		
26	Manage Returns	The admin will manage returns of devices		
27	Sales Analytics	Admin can view sales data/analytics for listings/jobs/devices		

3. Use case description (*Only describe Semester 1 Increment 1 use cases*)

Give a detailed description for each **business use case** identified above. Do not include CRUD operations here.

Use case number	01
Use case name	<i>Manage Listing</i>
Brief description	<i>The admin can manage all listings of properties</i>
Triggering event	<i>Admin logging into account</i>
Actor(s)	<i>Admin</i>
Preconditions	<i>Admin must be logged in</i>
Flow of activities	<ol style="list-style-type: none">1. Browse listings available on website2. Add listings to website3. Add descriptions of listings4. Edit details of listing

Use case number	02
Use case name	<i>Manage jobs</i>
Brief description	<i>The admin can manage all student jobs</i>
Triggering event	<i>Admin logging into account</i>
Actor(s)	<i>Admin</i>
Preconditions	<i>Admin must be logged in</i>
Flow of activities	<ol style="list-style-type: none">1. Browse jobs available for students in surrounding areas2. Add new jobs available to website3. Edit details of job4. View applications made

Use case number	03
Use case name	<i>Find accommodation</i>
Brief description	<i>Students can browse through accommodation available near to university</i>
Triggering event	<i>Student browse through local suitable accommodation</i>
Actor(s)	<i>Student</i>
Preconditions	<i>Student must select university</i>
Flow of activities	<ol style="list-style-type: none"> 1. <i>Browse university</i> 2. <i>Select duration</i> 3. <i>Browse through property listings</i> 4. <i>Choose and select property</i>

Use case number	04
Use case name	<i>Browse listing</i>
Brief description	<i>The student can browse through all listing to criteria</i>
Triggering event	<i>Student selecting rental tab</i>
Actor(s)	<i>student</i>
Preconditions	<i>No precondition</i>
Flow of activities	<ol style="list-style-type: none"> 1. <i>Select criteria</i> 2. <i>Select university</i> 3. <i>Find suitable accommodation</i>

Use case number	05
Use case name	<i>Create account</i>
Brief description	<i>The student can create account by inputting personal details</i>
Triggering event	<i>Select property</i>
Actor(s)	<i>Customer</i>
Preconditions	<i>Student must input correct details to create account</i>
Flow of activities	<ol style="list-style-type: none"> 1. <i>Select create account</i> 2. <i>Add the necessary details</i> 3. <i>Select create account</i>

Use case number	06
Use case name	<i>Schedule appointments</i>
Brief description	<i>The student can schedule appointment to view property</i>
Triggering event	<i>Select property</i>
Actor(s)	<i>Student</i>
Preconditions	<i>Student must be logged in</i>
Flow of activities	<ol style="list-style-type: none"> 1. <i>Select property</i> 2. <i>Book appointment</i>

Use case number	07
Use case name	<i>Manage payments</i>
Brief description	<i>The student can choose method of payments for rental deposits</i>
Triggering event	<i>Deposit is generated</i>
Actor(s)	<i>User</i>
Preconditions	<i>Price is generated and student must select payment option</i>
Flow of activities	<ol style="list-style-type: none"> 1. Add deposit to payment method 2. Confirm details. 3. Checkout. 4. Choose method of payment.

Use case number	08
Use case name	<i>Display methods</i>
Brief description	<i>Students can choose to either pay via COD or PayPal for deposit payment</i>
Triggering event	<i>Price is generated</i>
Actor(s)	<i>Student</i>
Preconditions	<i>Price is generated and student must select payment option</i>
Flow of activities	<ol style="list-style-type: none"> 1. Confirm details. 2. Checkout.

Use case number	09
Use case name	<i>Generate invoice</i>
Brief description	<i>Student will receive invoice confirmation for payment</i>
Triggering event	<i>Payment made (invoice sent)</i>
Actor(s)	<i>Student</i>
Preconditions	<i>Invoice received</i>
Flow of activities	<ol style="list-style-type: none"> 1. Views purchases 2. Receive invoice

Use case number	10
Use case name	<i>Find jobs</i>
Brief description	<i>Students can browse jobs offered close to accommodation</i>
Triggering event	<i>Browse through jobs offered</i>
Actor(s)	<i>User</i>
Preconditions	<i>Selecting university</i>
Flow of activities	<ol style="list-style-type: none"> 1. Select university 2. Browse jobs offered 3. Choose and select job

Use case number	<i>11</i>
Use case name	<i>Apply for job</i>
Brief description	<i>Students can apply for selected job</i>
Triggering event	<i>Select job</i>
Actor(s)	<i>Student</i>
Preconditions	<i>CV should be uploaded, and student logged in</i>
Flow of activities	<ol style="list-style-type: none"> 1. <i>Browse devices</i> 2. <i>View device and specs</i>

Use case number	<i>12</i>
Use case name	<i>browse devices</i>
Brief description	<i>Students can browse through devices and accessories offered</i>
Triggering event	<i>Students need devices</i>
Actor(s)	<i>User</i>
Preconditions	<i>Students can view and select devices and accessories</i>
Flow of activities	<ol style="list-style-type: none"> 1. <i>Browse device</i> 2. <i>View and select device and accessories</i>

Use case number	<i>13</i>
Use case name	<i>Purchase devices</i>
Brief description	<i>Students can select devices and accessories required to deliver</i>
Triggering event	<i>Select purchase device</i>
Actor(s)	<i>Student</i>
Preconditions	<i>No preconditions</i>
Flow of activities	<ol style="list-style-type: none"> 1. <i>Browse all available devices and accessories</i> 2. <i>View device and specs</i> 3. <i>Select desired devices and accessories to purchase</i>

Use case number	<i>14</i>
Use case name	<i>View options</i>
Brief description	<i>Students that purchased devices can select delivery option</i>
Triggering event	<i>Order to be delivered</i>
Actor(s)	<i>Student</i>
Preconditions	<i>Purchase over a certain value to be given free delivery</i>
Flow of activities	<ol style="list-style-type: none"> 1. <i>Browse delivery options</i> 2. <i>Generate delivery price</i> 3. <i>Confirm address</i> 4. <i>Choose correct method to deliver</i>

*Draw the use case diagram for each **business use case**. Do not include CRUD operations here.*

4. User Manual

4.1 Access detail – you are required to setup the URL using the year and Group e.g.

<http://2021grp10.azurewebsites.net/>

4.2 Login details for each **role**

Admin - Email: 21956096@dut4life.ac.za

Password: Asdf@1234

Student – Email: abhayksingh@gmail.com

Password: Asdf@1234

4.3 Usage of the **business use cases only**

5. Minutes of meeting

These minutes must indicate all members present as well as anyone who was absent.

Date: 23 February

Venue: WhatsApp

Time: 11:30

Duration:

Attendees

Name	Student Number	Present
Abhyay Singh	21956096	Yes
Yashlin Naidoo	21615391	Yes
Preollin Singh	21535214	Yes
Carishka Naidoo	21741007	Yes
Rivaan Krishnadutt	21638404	Yes
Israel Govender	21953908	Yes
Zaphi Khumalo	22063930	Yes
Thalente Mbuyisa	22050775	Yes

Discussions

Topic One: Discuss businesses in need of an IT solution

Completed Items:

1. Different businesses presented

2. Decided upon real estate business

To be completed items:

1. Business name
2. Preparation for first draft of project proposal

Date: 1 March

Venue: WhatsApp

Time: 12:05

Attendees

Name	Student Number	Present
Abhyay Singh	21956096	Yes
Yashlin Naidoo	21615391	Yes
Preollin Singh	21535214	Yes
Carishka Naidoo	21741007	Yes
Rivaan Krishnadutt	21638404	Yes
Israel Govender	21953908	Yes
Zaphi Khumalo	22063930	Yes
Thalente Mbuyisa	22050775	Yes

Discussions

Topic One: Brainstorm names

Topic Two: Allocate sections of project proposal to members

Completed Items:

1. Business name chosen
2. Project proposal sections listed – each group member chose a section to work on

To be completed items:

1. Submission of individual group members sections for project proposal

Date: 2 March 2022

Venue: WhatsApp

Time: 11:30

Duration: 35 minutes

Attendees

Name	Student Number	Present
Abhyay Singh	21956096	Yes
Yashlin Naidoo	21615391	No
Preollin Singh	21535214	Yes
Carishka Naidoo	21741007	Yes
Rivaan Krishnadutt	21638404	No
Israel Govender	21953908	Yes
Zaphi Khumalo	22063930	Yes
Thalente Mbuyisa	22050775	Yes

Discussions

Topic One: review of proposal to be done within group

Completed Items:

1. Compilation of project proposal draft
2. First draft ready to be submitted on 3rd March

To be completed items

1. Submission feedback

Date: 16 March 2022

Venue: WhatsApp

Time: 11:30

Duration: 20 minutes

Attendees

Name	Student Number	Present
Abhyay Singh	21956096	Yes
Yashlin Naidoo	21615391	Yes
Preollin Singh	21535214	Yes
Carishka Naidoo	21741007	Yes
Rivaan Krishnadutt	21638404	Yes
Israel Govender	21953908	Yes
Zaphi Khumalo	22063930	Yes
Thalente Mbuyisa	22050775	No

Discussions

Topic One: Discuss feedback and make changes

Completed Items:

1. Changes made to processes and use cases

To be completed items:

1. Feedback from lecturer

Date: 18 March 2022

Venue: WhatsApp

Time: 14:35

Duration: 1 hour

Attendees

Name	Student Number	Present
Abhyay Singh	21956096	Yes
Yashlin Naidoo	21615391	Yes
Preollin Singh	21535214	No
Carishka Naidoo	21741007	Yes
Rivaan Krishnadutt	21638404	No
Israel Govender	21953908	Yes
Zaphi Khumalo	22063930	Yes
Thalente Mbuyisa	22050775	Yes

Discussions

Topic One: Discuss lecturer's feedback

Topic Two: Decide on amendments based on feedback

Completed Items:

1. Discussed each point of lecturer's feedback and listed solutions/amendments
2. Allocated amendments to team members

To be completed items:

1. Submission of amendments to proposal by each group member
2. Review of amendments to proposal

Date: 22 March 2022

Venue: WhatsApp

Time: 14:35

Duration: 1 hour

Attendees

Name	Student Number	Present
Abhyay Singh	21956096	Yes
Yashlin Naidoo	21615391	Yes
Preollin Singh	21535214	No
Carishka Naidoo	21741007	No
Rivaan Krishnadutt	21638404	Yes
Israel Govender	21953908	Yes
Zaphi Khumalo	22063930	Yes
Thalente Mbuyisa	22050775	Yes

Discussions

Topic One: Discuss lecturer's feedback

Topic Two: Update Proposal with system function recommendations

Completed Items:

1. Discussed each point of lecturer's feedback and listed solutions/amendments
2. Allocated amendments to team members

3. Updated entire proposal to recommended functions and processes

To be completed items:

1. Compilation of final proposal for submission

Date: 26 March 2022

Venue: WhatsApp

Time: 14:35

Duration: 1 hour

Attendees

Name	Student Number	Present
Abhyay Singh	21956096	Yes
Yashlin Naidoo	21615391	Yes
Preollin Singh	21535214	Yes
Carishka Naidoo	21741007	Yes
Rivaan Krishnadutt	21638404	Yes
Israel Govender	21953908	No
Zaphi Khumalo	22063930	No
Thalente Mbuyisa	22050775	Yes

Discussions

Topic One: Discuss lecturer's feedback

Topic Two: Update Proposal with system function recommendations

Topic three: Allocate sections of SRS document to team members

Topic four: Update use cases

Completed Items:

1. Discussed each point of lecturer's feedback and listed solutions/amendments
2. Allocated amendments to team members
3. Updated entire proposal to recommended functions and processes
4. SRS document sections listed – each group member chose a section to work on
5. Each group member chose a use case to update and proposed new cases

To be completed items:

1. final proposal for submission
2. Submission of SRS document sections by each group member
3. Review updated use cases

Date: 30 April 2022

Venue: WhatsApp

Time: 10:00

Duration: 30 minutes

Attendees

Name	Student Number	Present
Abhyay Singh	21956096	Yes
Yashlin Naidoo	21615391	Yes
Preollin Singh	21535214	Yes
Carishka Naidoo	21741007	Yes
Rivaan Krishnadutt	21638404	Yes
Israel Govender	21953908	Yes
Zaphi Khumalo	22063930	Yes
Thalente Mbuyisa	22050775	Yes

Discussions

Topic One: discussion of coding methods

Completed Items:

1. Distribution of use cases through team members

To be completed items:

1. Splitting of code and design material

Date: 19 May

Venue: WhatsApp

Time: 15:00

Attendees

Name	Student Number	Present
Abhyay Singh	21956096	Yes
Yashlin Naidoo	21615391	Yes
Preollin Singh	21535214	Yes
Carishka Naidoo	21741007	Yes
Rivaan Krishnadutt	21638404	Yes
Israel Govender	21953908	Yes
Zaphi Khumalo	22063930	Yes
Thalente Mbuyisa	22050775	Yes

Discussions

Topic One: splitting of All coding agendas

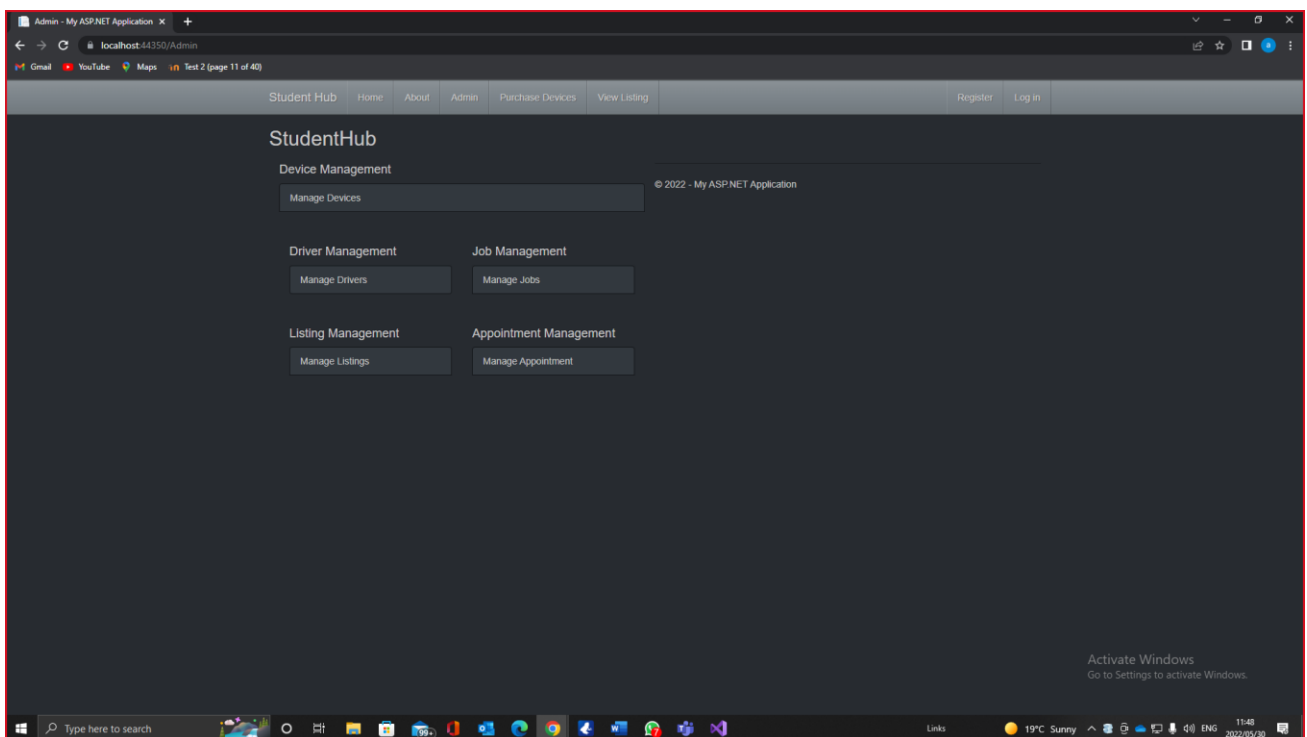
Topic Two: Discuss new ways to code

Completed Items:

1. List of use cases updated
2. SRS document compiled

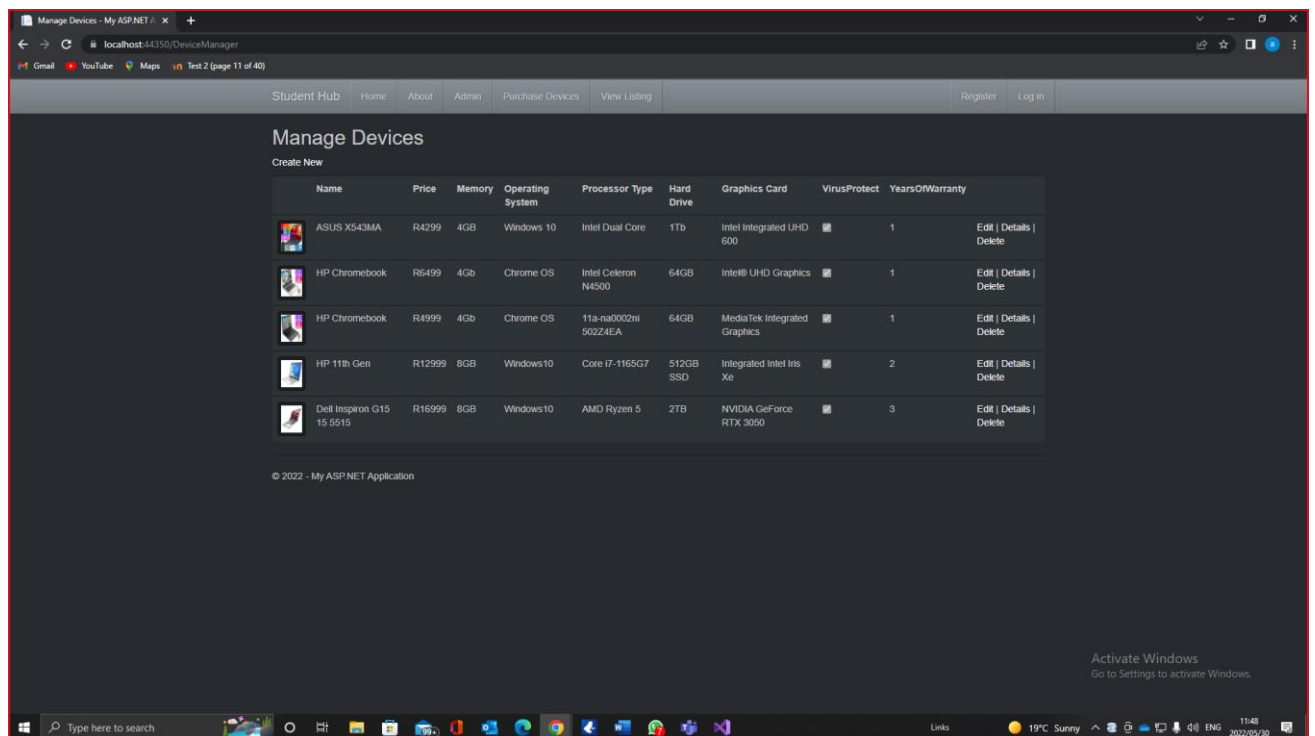
To be completed items:

1. All code to be submitted and compiled

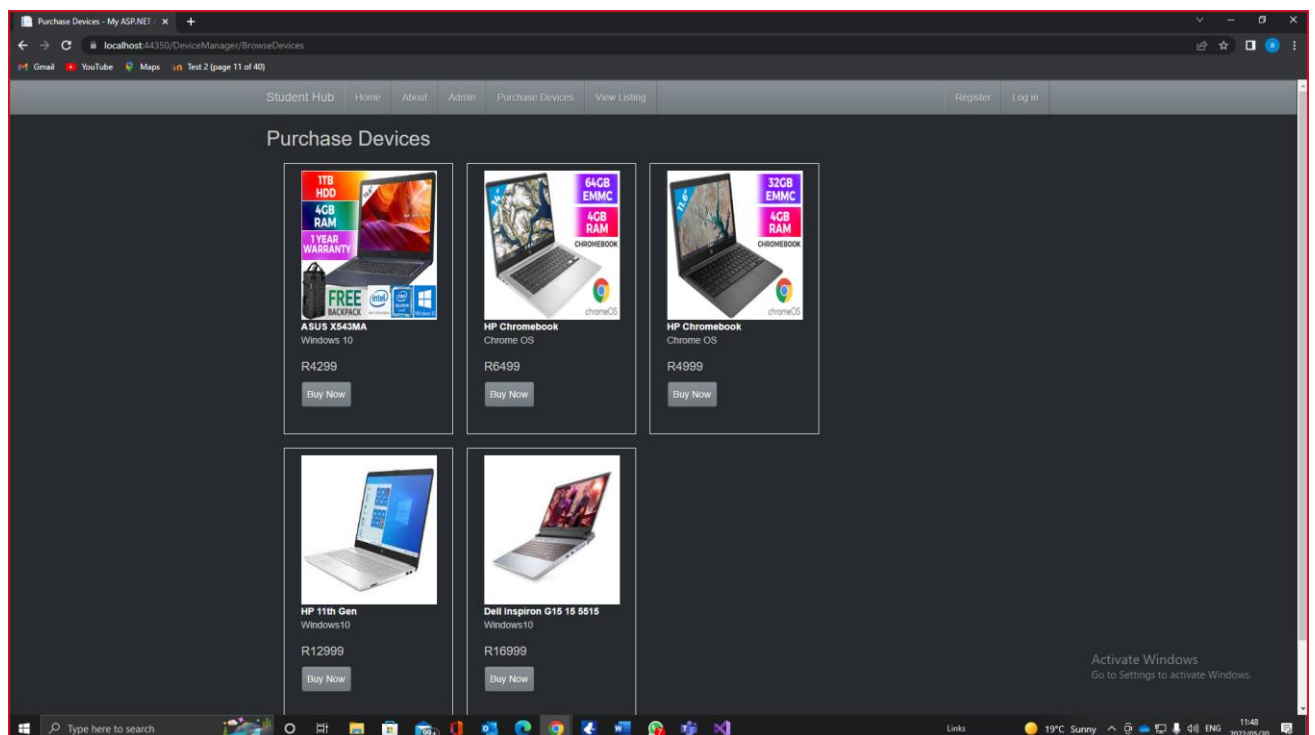


Student hub admin page with admin roles and manage features

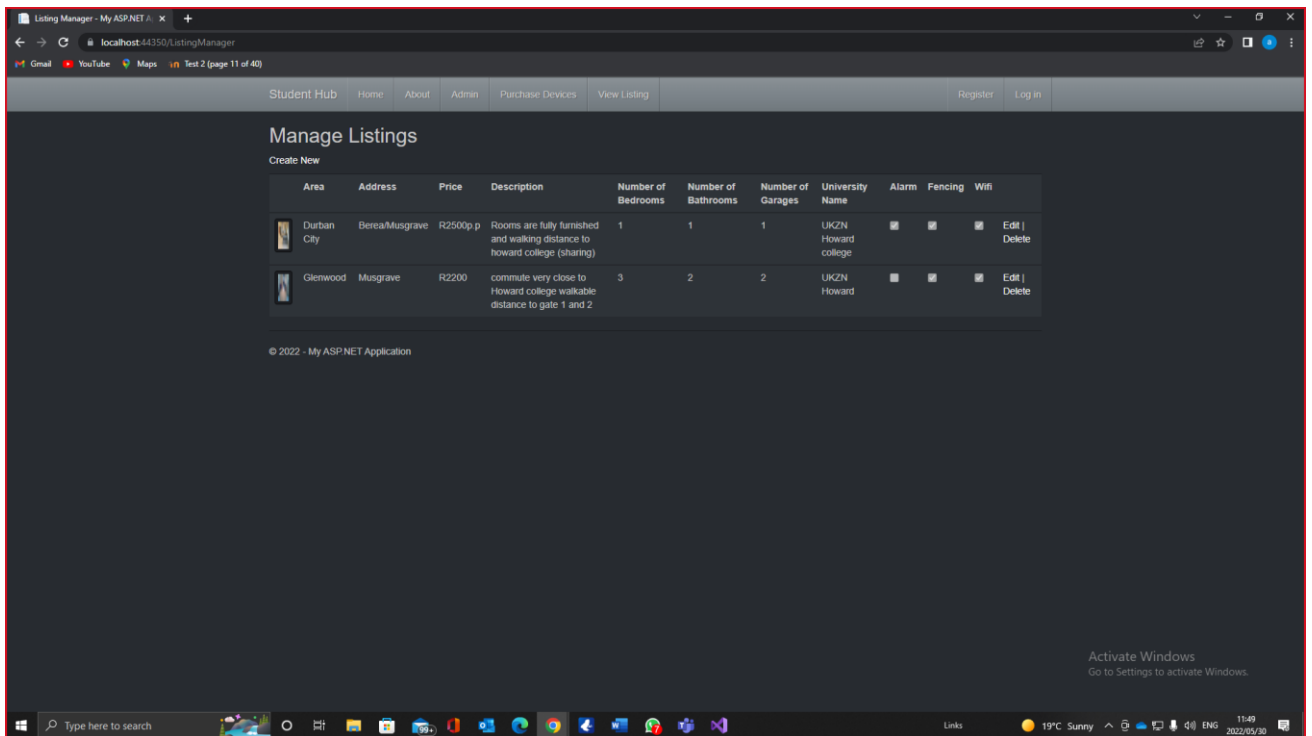
Admin can manage drivers, listings, jobs and appointments



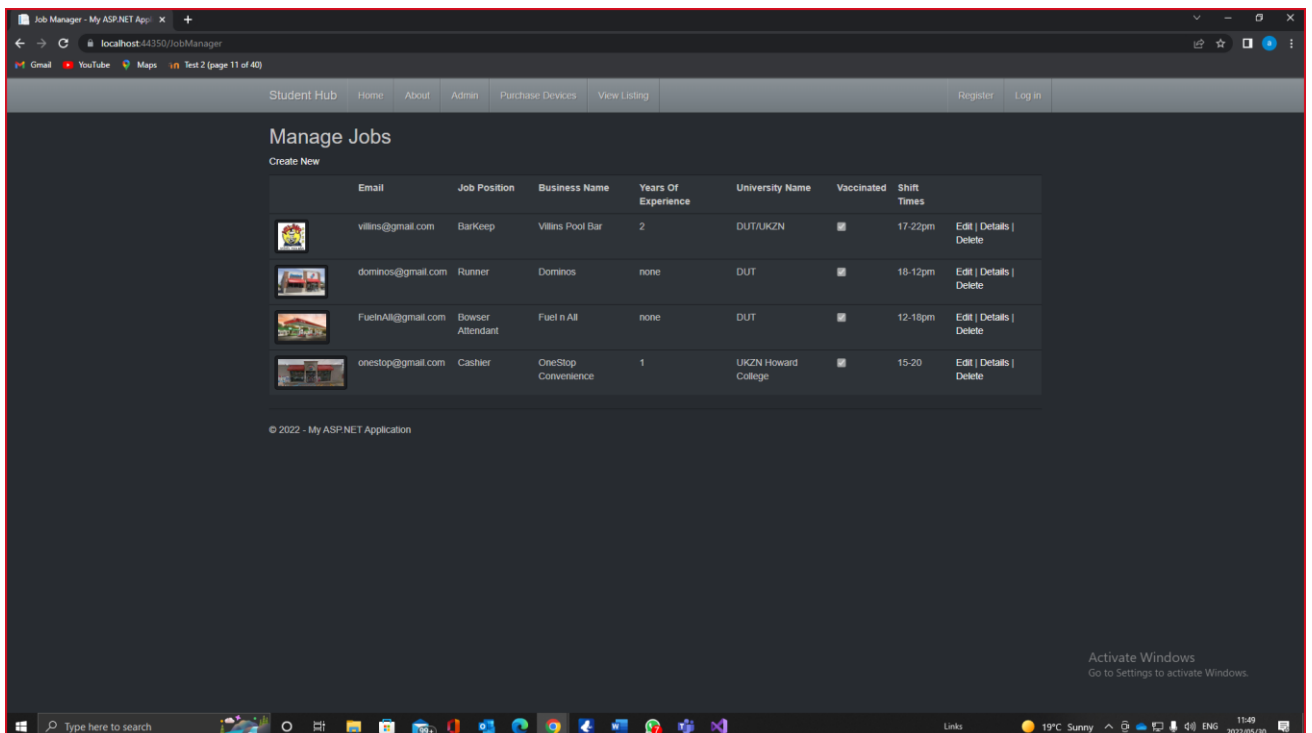
Manage device page where adminis able to browse through and manage all devices by logging into the system as an admin



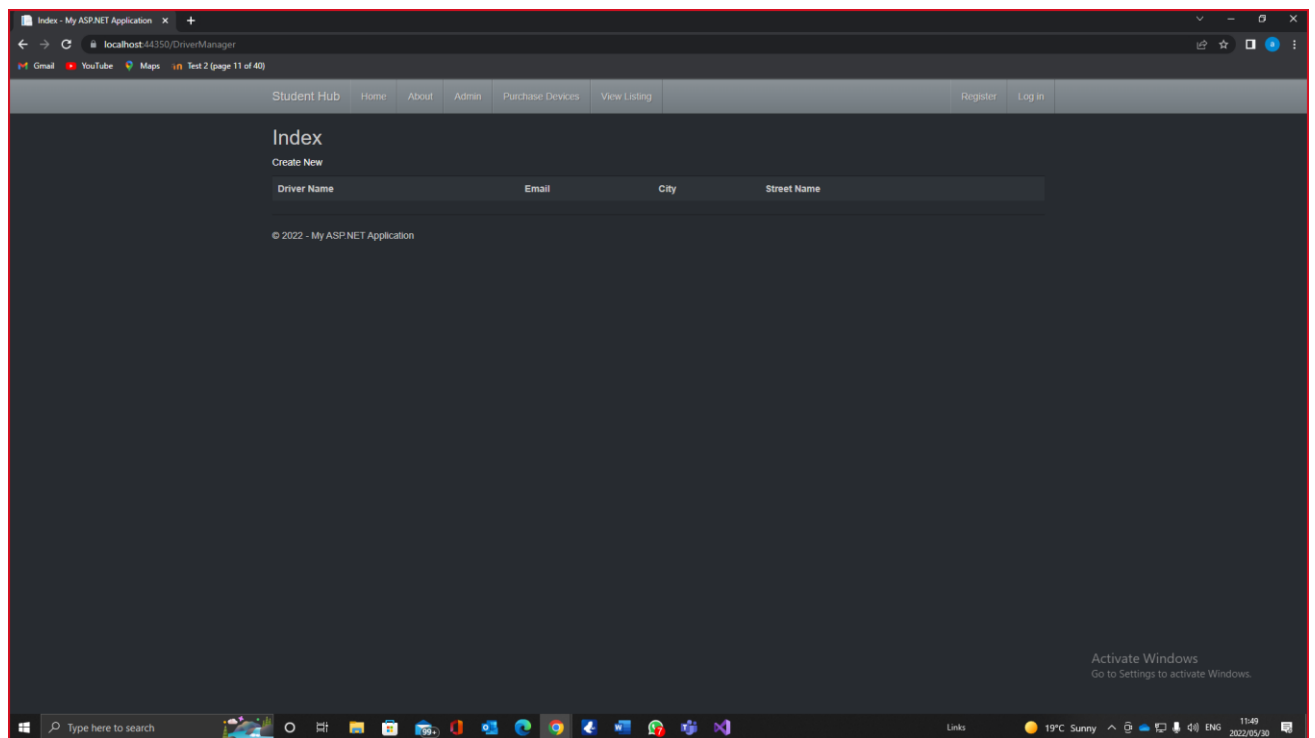
Purchase devices page whereby users can purchase and browse through devices



Manage listings page where admin is able to browse through all listings and manage accordingly to any additions



Manage jobs page where admin can update and ensure all applicants have been given relevant informations



Driver index page with table tabulating all drivers available on system