# Applications Development Project 3 –ADPA301-2021 Software Requirements Specification (SRS)

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: _	9	Group name:	Peaky Blinders
_			<u> </u>

	Reg no	First name	Surname	Sign	Meetings held	Number attende d
1	21901959	Keenan	Pillay	WHEN.	12	12
2	21905608	Callan	Naidoo	quardes	12	12
3	21912160	Talia	Ramroop	Rey	12	8
4	21912220	Avishek	Narsi	Aasi	12	12
5	21919268	Pashlin	Naidoo	Raubo	12	9
6	21919281	Kishen	Jurakan	And wet ar	12	9
7	21919901	Adrian	Naidoo	American	12	12
8	21937943	Shyur	Jeenarain	4	12	12

Business Domain	e-Commerce Online Library
Business name	Durban Central Library
Contact Person	
Contact number	
Email address	

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# 1. Executive summary

Libraries have played a significant role in the development and enjoyment of citizens lives. It's always been a place which offers the availability of all kinds of books, whether it be educational or leisure reading. There has always been a need for libraries, as it helped bridge the gap for students who didn't have access to learning resources. Despite its success of libraries in the past few decades the emergence of the Covid-19 pandemic and the resulting lockdown has brought about the closing of libraries. People are adapting to this change and rather looking at buying books online or downloading the PDF versions. We are exploring the idea of developing an e-commerce website which will allow people to borrow books as well as purchasing books through the system. This will enable students to have access to the library from the comfort of their homes.

# 2. Business use cases

No	Use case	Brief Use Case description	Full Name	Complete d Yes / No
1.	<b>Manage Books</b>	The admin can manage all the books in the library	Keenan Pillay	Yes
2.	Purchase Book	Customers can purchase books online	Keenan Pillay	Yes
3.	Create Account	Customers can register/ create an account by entering their personal details	Avishek Narsi	Yes
4.	Browse Books	Customers can view the details about a book	Pashlin Naidoo	Yes
5.	Place Order	Customers can place the order of the books they wish to purchase	Kishen Jurakan	Yes
6.	Borrow Book	Customers can borrow books from the library	Kishen Jurakan	No
7.	Create Account	Customers can register/ create an account by entering their personal details	Avishek Narsi	Yes
8.	Browse Book	Customers can view the details about a book	Keenan Pillay	No
9.	Schedule Pick-Up	Customers can schedule pick-up that is convenient for them	Pashlin Naidoo	No
10.	Book Availability	Customers will be able to check the availability of books in the library	Pashlin Naidoo	No
11.	<b>Deliver Order</b>	Customers that have purchased books can choose the delivery option	Callan Naidoo	Yes
12.	View Options	Customers that have purchased books can choose to have a delivery (express/normal) or pick up	Callan Naidoo	Yes
13.	Manage Payment	Customers can choose their method of payment for the purchase of books	Shyur Jeenarain	Yes
14.	View Methods	Customers can choose the payment options of cash on delivery, credit, or PayPal for the purchase of books	Shyur Jeenarain	Yes

15.	Generate Invoice	Customers will receive an invoice for their purchases	Avishek Narsi	Yes
16.	<b>Update Order</b>	Customers can update their order	Adrian Naidoo	No
17.	View Orders	Customers will be able to view their orders	Avishek Narsi	No
18.	Delivery Details	Customers will be able to view the delivery details for their order	Talia Ramroop	No
19.	Process Order	The admin/employees will process the customers' order	Keenan Pillay	No
20.	View All Orders	The admin/employees will be able to view the customers' orders	Keenan Pillay	No
21.	View Details	The admin can view all the order details	Kishen Jurakan	No
22.	Edit Order Statuses	The admin/employees will be able to edit order statuses	Kishen Jurakan	No

# 3. Use case

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

Use case number	01
Use case name	Manage Books
<b>Brief description</b>	The admin can manage all the books in the library
Triggering event	Admin logs into account
Actor(s)	Admin
Preconditions	Admin must be logged in
Flow of activities	1. Browse books which are on website
	2. Add books to website
	3. Edit book details
	4. Add new authors for new books
	5. Add new genres to website

Use case number	02
Use case name	Purchase Book
<b>Brief description</b>	Customers can purchase books
<b>Triggering event</b>	Customer must click on purchase book tab
Actor(s)	Customer
Preconditions	No preconditions
Flow of activities	1. Customers can browse all available books
	2. Customers can choose books from specific genres
	3. Customers are able to select the books they want to purchase

Use case number	03
Use case name	Create account
<b>Brief description</b>	A customer/s can create an account by entering their personal details
<b>Triggering event</b>	Purchase book
Actor(s)	Customer
Preconditions	The customer must add their personal details and create their account
Flow of activities	1.Select create account
	2.Add the necessary details
	3.Select create account

Use case number	04
Use case name	Browse Books
<b>Brief description</b>	Customers can view the details about a book
<b>Triggering event</b>	Customers are curious about what the book entail
Actor(s)	Customer
Preconditions	Customers can read the description of the book
Flow of activities	1. Select book
	2. View book/description

Use case number	05
Use case name	Place order
<b>Brief description</b>	Customers can place the order of the books they wish to purchase
<b>Triggering event</b>	Place order for books
Actor(s)	Customer
Preconditions	User must be logged in to place an order
Flow of activities	1.Select book
	2. View Description
	3.Add to order

Use case number	11
Use case name	Deliver Order
<b>Brief description</b>	Customers can choose the delivery option
Triggering event	Customers order to be delivered

Actor(s)	Customer
Preconditions	Orders over R350 is free delivery
Flow of activities	1. Identify the various delivery options
	2. Select one
	3. Edit address

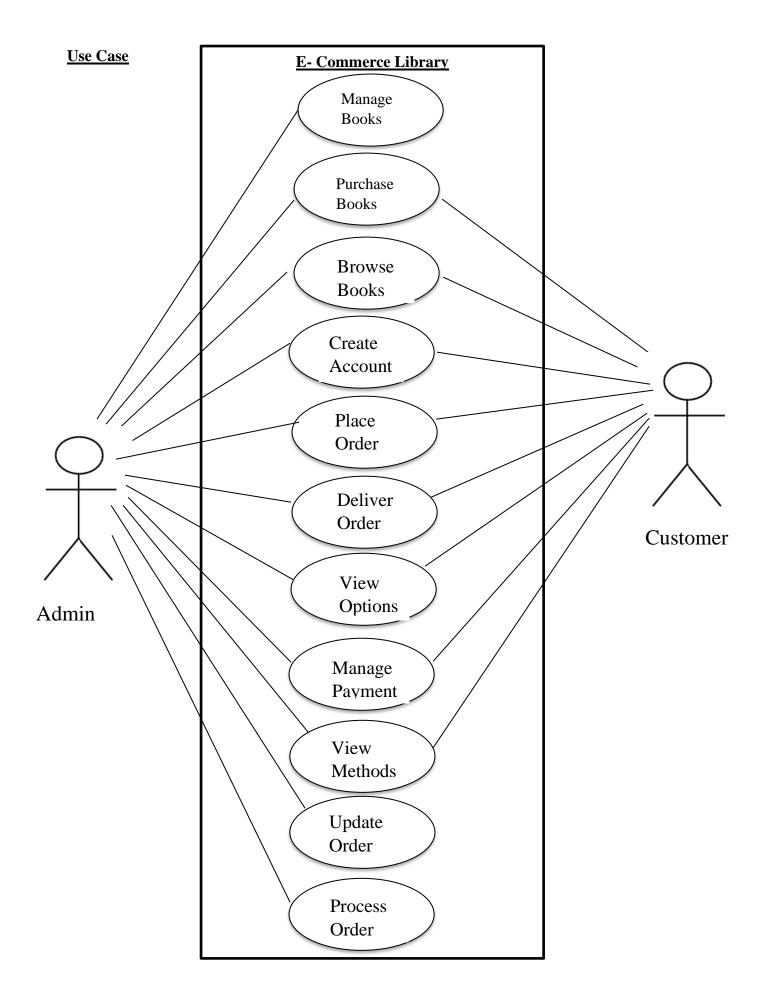
Use case number	12
Use case name	View Options
<b>Brief description</b>	Customers that have purchased books can choose to have a delivery
	(express/normal) or pick up
<b>Triggering event</b>	Order to be delivered or picked up
Actor(s)	Customer
Preconditions	Order over R350 is free delivery
Flow of activities	1. Identify the various options
	2. Generate prices
	3. Choose an option

Use case number	13
Use case name	Manage Payment
<b>Brief description</b>	Customers can choose their method of payment for the purchase of books.
<b>Triggering event</b>	Price is generated.
Actor(s)	User
Preconditions	Price is generated and user needs to check out.
Flow of activities	1. Add books to basket.
	2. Confirm details.
	1. Checkout.
	2. Choose method of payment.

Use case number	14
Use case name	View Methods
<b>Brief description</b>	Customers can choose the payment options of cash on delivery, credit, or
	PayPal for the purchase of books.
<b>Triggering event</b>	Price is generated.
Actor(s)	User
Preconditions	Price is generated and user needs to check out.
Flow of activities	1. Confirm details.
	2. Checkout.

3. Choose payment type (cash or card).

Use case number	15
Use case name	Generate invoice
<b>Brief description</b>	Customers will receive an invoice for their purchases
<b>Triggering event</b>	Invoice sent to customer
Actor(s)	Customer
Preconditions	Invoice received for purchases
Flow of activities	1. Views purchases
	2. Receive invoice



#### 4. User Manual

4.1 Access detail – you are required to setup the URL using the year and Group eg. http://2021grp09.azurewebsites.net/

4.2 Login details for each role

Admin - Email: 21901959@dut4life.ac.za

Password: Qwerty\$1234

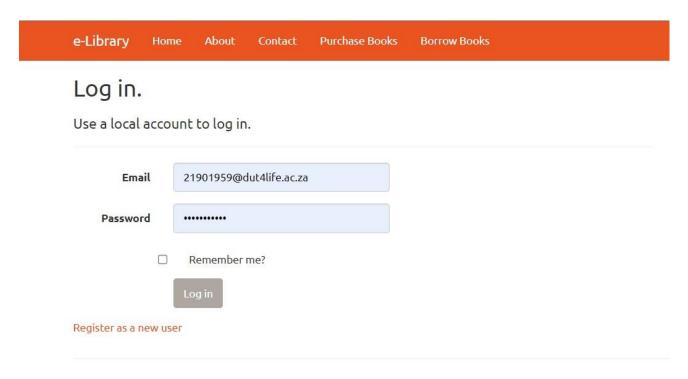
Customer- Email: 21919281@dut4life.ac.za

Password: Qwerty\$1234

4.3 Usage of the business use cases only

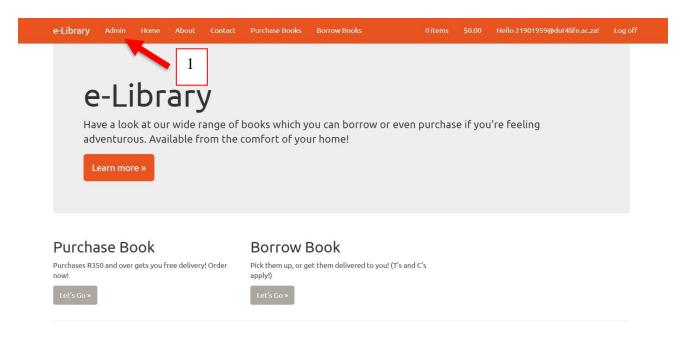
# 1. Manage books

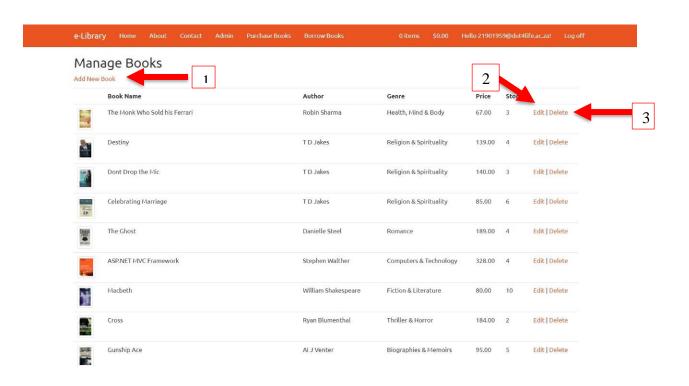
#### **Admin Role**



- 1. The admin must log in to their account to manage the books
- 2. Enter email address
- 3. Enter Password
- 4. Click "LOG IN" button to have access to manage books

1. The admin can manage all the books in the library by clicking the "Admin" tab after logging in

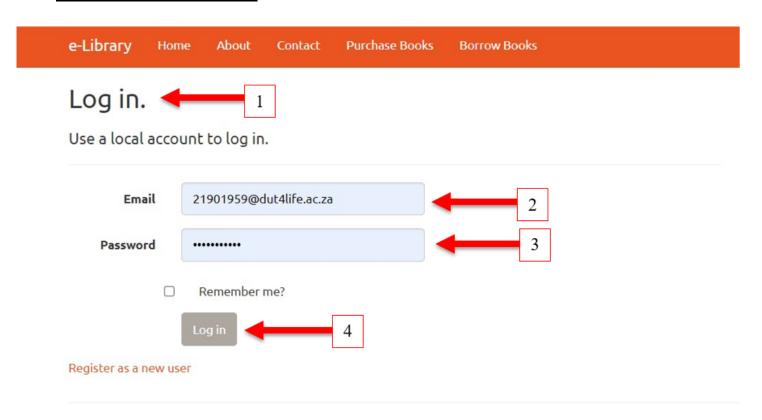




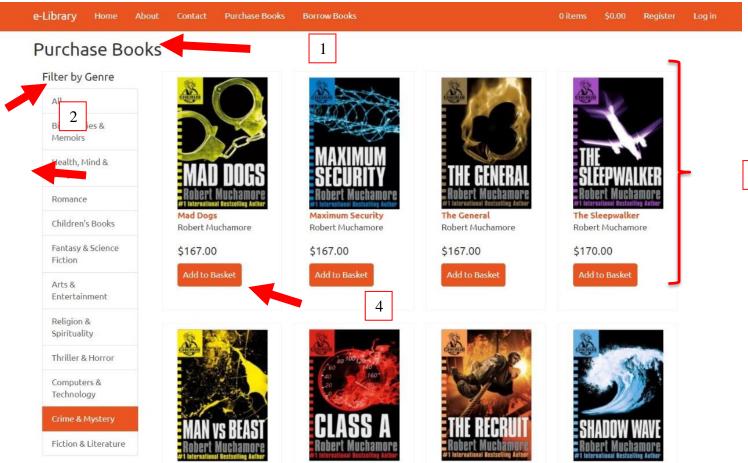
- 1. The admin can add new book to the system by clicking "Add New Book"
- 2. The admin can edit existing books by clicking "edit"
- 3. The admin can select a book to be deleted from the site for 'purchase books' by clicking "Delete" button for the book to be permanently deleted from the site

# 2. Purchase books

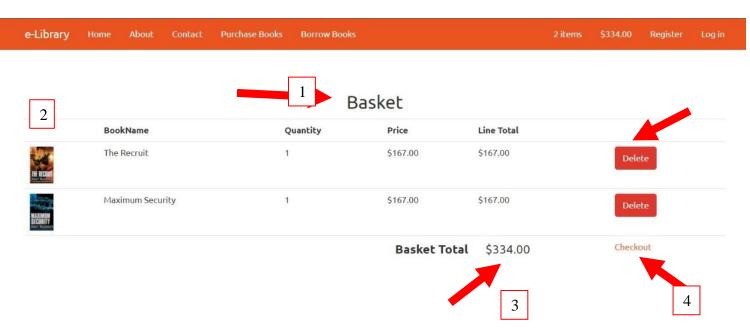
# **Admin and Customer Role**



- 1. The admin or customer must log in to their account to purchase books. They can create an account if they don't have one by clicking "Register as a new user" at the bottom left.
- 2.Enter email address
- 3. Enter Password
- 4. Click "LOG IN" button to be able to purchase books

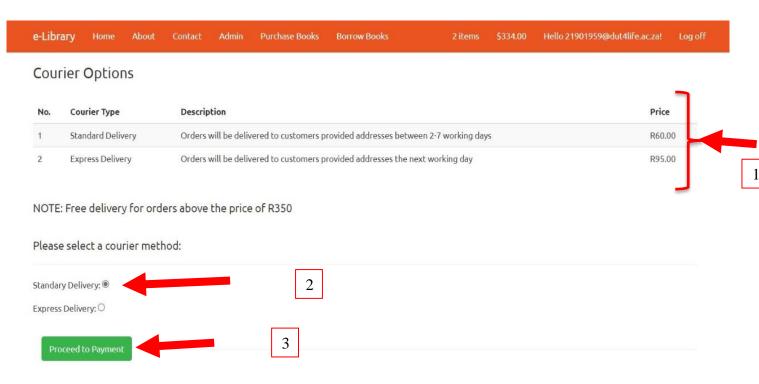


- 1. Users can view the books available for purchase
- 2. Users can select the "filter" dropdown list to find a genre of their choice and all those books will appear on the screen
- 3. The details of each book is displayed on the screen which includes the name of the book, author and price
- 4. If the user is interested in the book they can select the button below the book "ADD TO BASKET"

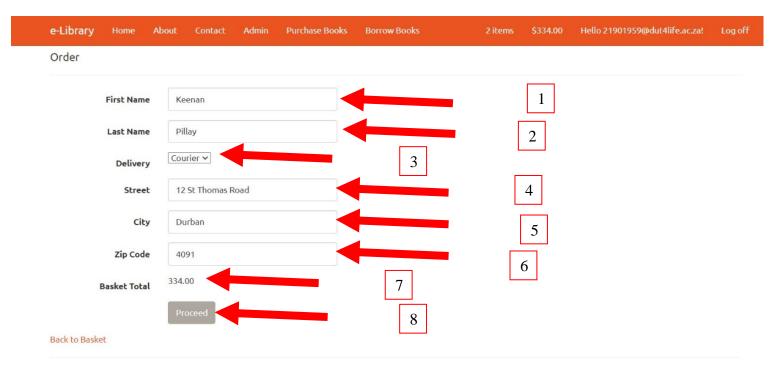


- 1. Users can place the order by first viewing their basket which will show the quantity, price of each book in the basket
- 2. Users can choose to delete a book by clicking the "DELETE" button
- 3. The basket total of all the books is displayed
- 4. Users can select the "Checkout" button which will direct them to the Deliver order page or they can collect the order

# 3.Deliver order (Admin and Customer Role)

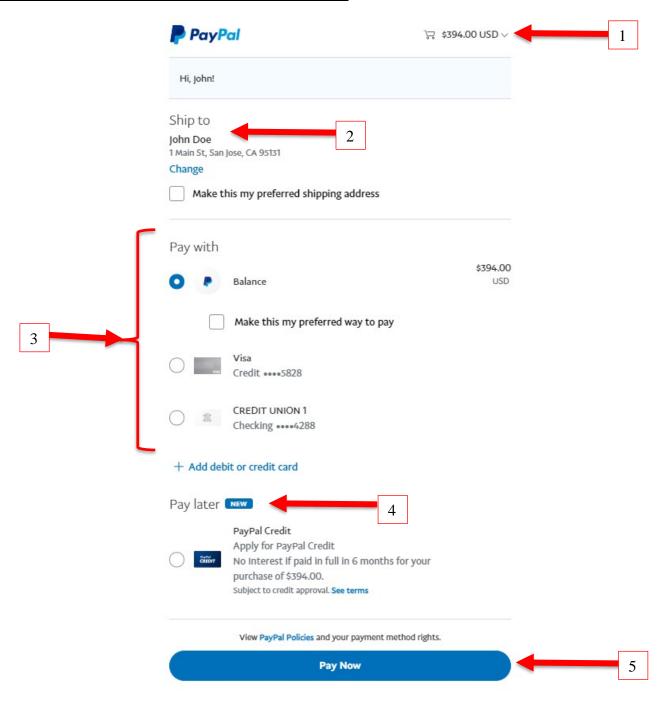


- 1. Users can view the courier options for their purchases and the prices of each delivery option (If the basket total is over R350, the delivery is free)
- 2. After viewing the different options, select one courier method
- 3. Click "PROCEED TO PAYMENT" button where the user will have to update their delivery address and then proceed to payment



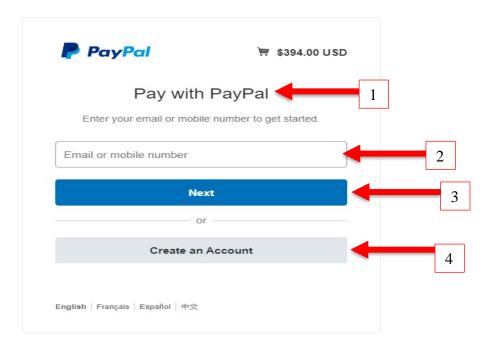
- 1. Enter first name
- 2. Enter last name
- 3. Choose an option from the dropdown list
- 4. Enter Address
- 5. Enter City
- 6. Enter Zip Code
- 7. The basket total is displayed for all the items in the basket including the delivery fee
- 8. Click the "PROCEED" button to proceed to the payments page

# 4. Manage payment (Admin and Customer Role)

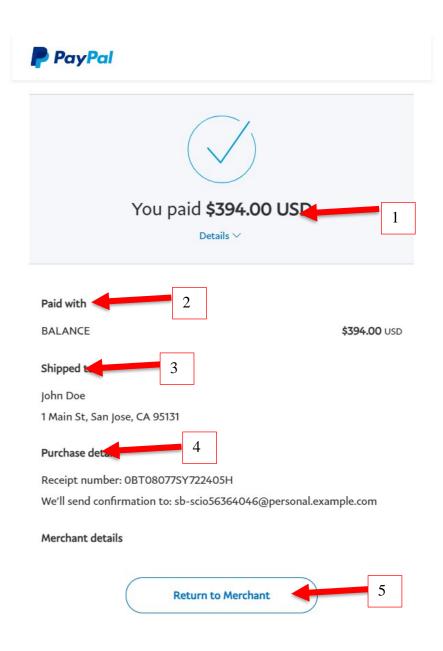


# 1. This is the total amount owing

- 2. The order will be shipped to (Customer name) and the address
- 3. User can choose the method of payment by selecting one (PayPal, Visa or Credit)
- 4. There is an option to pay later by clicking "PayPal Credit" button
- 5. Thereafter click "Pay Now" to proceed to the next page



- 1. User making payment via PayPal
- 2. Enter email address or mobile number for the confirmation to be sent.
- 3. Click "Next"
- 4. Create an account if you don't already have one by clicking "Create an Account"

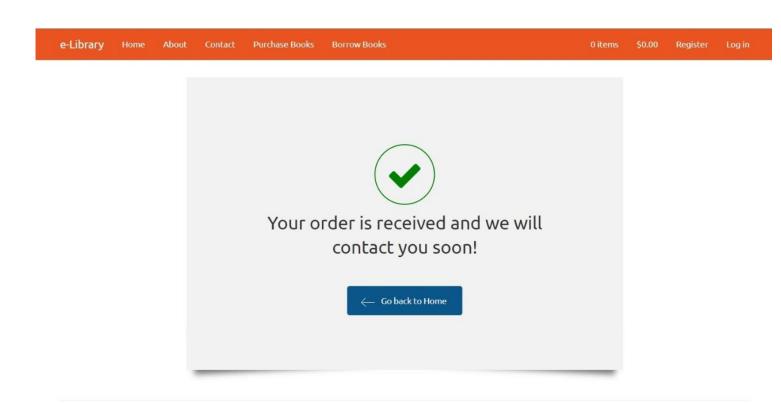


- 1. Successful payment
- 2. Method of payment is shown with the total amount
- 3. Shipped to (Name and Address of the customer)

# 4. Purchase details:

Receipt Number and a confirmation will be sent via email for the payment

5. Click "Return to Merchant" when complete



1. Successful payment of the order

# 5. Minutes of meeting

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

# First meeting:

Location: Discord
Date: 29 March 2021
Duration: 1 hour

Time: 10:00

#### Members that attended: (All)

21919281 Jurakan KA 21901959 Pillay K 21912220 Narsi AK 21937943 Jeenarain S 21905608 Naidoo C 21919901 Naidoo A 21919268 Naidoo P 21912160 Ramroop TL

# **Discussion:**

All group members were required to come up with ideas before the meeting. In the meeting group members participated in sharing their thoughts and ideas after researching on business topics. We chose the best 3 from all the options and then voted for the best one which we all agreed on.

# **Second meeting:**

Location: Discord Date: 31 March 2021 Duration: 1 hour Time: 12:00

#### Members that attended: (All)

21919281 Jurakan KA 21901959 Pillay K 21912220 Narsi AK 21937943 Jeenarain S 21905608 Naidoo C 21919901 Naidoo A

21919268 Naidoo P

21912160 Ramroop TL

# **Discussion:**

We discussed our chosen topic more in detail. All members shared their thoughts and ideas on how we could go about doing the project.

# **Third meeting:**

Location: Discord Date: 5 April 2021 Duration: 1 hour Time: 14:00

# Members that attended: (All)

21919281 Jurakan KA

21901959 Pillay K

21912220 Narsi AK

21937943 Jeenarain S

21905608 Naidoo C

21919901 Naidoo A

21919268 Naidoo P

21912160 Ramroop TL

#### **Discussion:**

We discussed our business summary and the website details. Everyone worked on their parts for the proposal. We reviewed it at the meeting and made the necessary changes. We discussed the business processes in detail.

# Fourth meeting:

Location: Discord Date: 8 April 2021

**Duration: 1 hour 20 minutes** 

Time: 13:00

#### Members that attended: (All)

21919281 Jurakan KA 21901959 Pillay K 21912220 Narsi AK 21937943 Jeenarain S 21905608 Naidoo C 21919901 Naidoo A 21919268 Naidoo P 21912160 Ramroop TL

# **Discussion:**

We discussed and made our final changes to our proposal before submission.

# Fifth meeting:

Location: Discord Date: 12 April 2021 Duration: 45 minutes

Time: 13:30

# Members that attended: (All)

21919281 Jurakan KA 21901959 Pillay K 21912220 Narsi AK 21937943 Jeenarain S 21905608 Naidoo C 21919901 Naidoo A 21919268 Naidoo P

21912160 Ramroop TL

#### **Discussion:**

Our project was approved but we needed to work on improving our business processes which was done in this meeting.

# Sixth meeting:

Location: Discord Date: 27 April 2021 Duration: 1 hour

Time: 14:00

# Members that attended: (All)

21901959 Pillay K 21912220 Narsi AK 21937943 Jeenarain S 21905608 Naidoo C 21919901 Naidoo A 21912160 Ramroop TL

#### Members that did not attend:

21919268 Naidoo P 21919281 Jurakan KA

# Discussion:

We finished the final business processes and started with the detailed use cases. Prior to this meeting we briefly discussed on WhatsApp how we would split the coding and we started the prototypes.

# **Seventh meeting:**

Location: Discord Date: 7 May 2021

**Duration: 2 hours 30 minutes** 

Time: 13:45

# Members that attended: (All)

21901959 Pillay K 21912220 Narsi AK 21937943 Jeenarain S 21905608 Naidoo C 21919901 Naidoo A 21919268 Naidoo P 21919281 Jurakan KA

# **Members that did not attend:**

21912160 Ramroop TL

#### **Discussion:**

We discussed the use case allocations and how we will go about with the coding in detail. We completed the final proposal document and shared what we've already coded.

#### **Eighth meeting:**

Location: Discord Date: 13 May 2021

**Duration: 2 hours 30 minutes** 

Time: 13:00

# Members that attended: (All)

21919281 Jurakan KA

21901959 Pillay K

21912220 Narsi AK

21937943 Jeenarain S

21905608 Naidoo C

21919901 Naidoo A

21919268 Naidoo P

21912160 Ramroop TL

# **Discussion:**

Group members had to display their screens showing the progress with the coding of their parts and what they needed help with. Our group leader showed us how to use GitHub to add our code.

# Ninth meeting:

**Location: Discord** Date: 17 May 2021 **Duration: 1 hour** 

Time: 13:00

#### Members that attended: (All)

21919281 Jurakan KA

21901959 Pillay K

21912220 Narsi AK

21937943 Jeenarain S

21905608 Naidoo C

21919901 Naidoo A

21919268 Naidoo P

21912160 Ramroop TL

# **Discussion:**

All members coded together during that time to for the e-Library seed method. We coded the different genres of books, authors, descriptions etc.

# **Tenth meeting:**

**Location: Discord** Date: 20 May 2021

**Duration: 1 hour 30 minutes** 

Time: 13:00

# Members that attended: (All)

21919281 Jurakan KA

21901959 Pillay K

21912220 Narsi AK

21937943 Jeenarain S

21905608 Naidoo C

21919901 Naidoo A

21919268 Naidoo P

21912160 Ramroop TL

# **Discussion:**

We thoroughly discussed the progress, code and improvements of each page

# **Eleventh meeting:**

Location: Discord Date: 27 May 2021 Duration: 30 minutes

Time: 13:00

#### **Members that attended:**

21919281 Jurakan KA

21901959 Pillay K

21912220 Narsi AK

21937943 Jeenarain S

21905608 Naidoo C

21919901 Naidoo A

21919268 Naidoo P

# Members that did not attend:

21919281 Jurakan KA 21912160 Ramroop TL

# **Discussion:**

A short discussion on the finishing up of the pages are and how we will go about with the deployment.

# **Twelfth meeting:**

**Location: Discord** 

Date: 30 May 2021 Duration: 1 hour Time: 15:00

# **Members that attended:**

21919281 Jurakan KA 21901959 Pillay K 21912220 Narsi AK 21937943 Jeenarain S 21905608 Naidoo C 21919901 Naidoo A

# Members that did not attend:

21912160 Ramroop TL 21919268 Naidoo P

# **Discussion:**

Finishing up of the SRS document. Sorting out errors on the app before deployment.