



IT3030

Programming Applications and Frameworks

3rd Year, 1st Semester

Assignment

Group Project

Submitted to

Sri Lanka Institute of Information Technology

In partial fulfillment of the requirements for the
Bachelor of Science Special Honors Degree in Information Technology

Group No: Y3S1.01.1(IT)_Group08

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1.Introduction

“Gadget Badget (GB)” is a company who funds inventors and let them sell their products in companies’ online platform. Our task was to create the online platform by covering the whole scope of the company. We used java JAX-RS Jersey, tomcat and MySQL as our tools to build the platform. Simply when the inventor invents a product and publish in the company’s online platform after getting the approvement from the company the customers can view the product and if they are interested, they can do the payment and purchase the product. The platform is simple and easy to understand.

2.Member’s Details

IT Number	Name	Web Service	Description of the Web Service
IT19091426	Avinash W.V. K	Customer Management	Insert, Update, Delete and View Customer Details
		Payment Management	Insert, Update, Delete and View Payment Details
IT19117942	Ganepola A.M.T. G	Inventor Management	Insert, Update, Delete and View Inventor Details.
		Product Management	Insert, Update, Delete and View Products Details.
IT19126784	Wijerathne P.S. A	Funder Management	Insert, Update, Delete and View Funder Details.
IT19117010	Jayasundara J.M.N.K. B	Approvement Management	Insert, Update, Delete and View Approvement Details.

Clickable link

<https://github.com/kulanaavinash/GadgetBadget.git>

SE Methodology

Agile Methodology is used for the development purposes

The combination of iterative and the incremental models is referred to agile methodology. Due to its adaptiveness the complex projects are very easily to handle. This model will provide chance for the project team to break the task and put into small iteration.

Pros:

- People interaction is frequently happening here, so it very help for people communication.
- Adaption can have any time and any phase

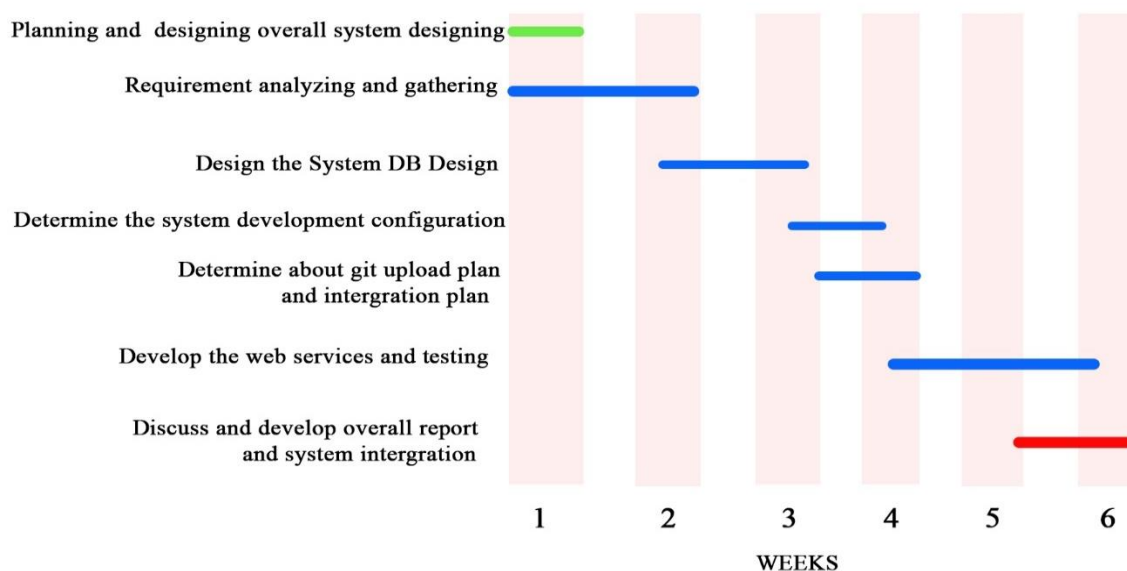
Cons:

- Lack of emphasize designing and documentation.
- Project direction can off track when the discussion gone wrong.

We used the unit testing and integrated testing methodologies for testing purposes.

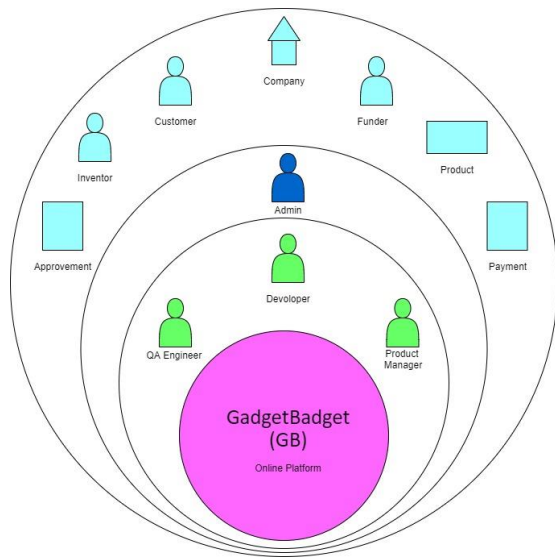
1. Unit testing
 - We use this for Unit-testing to test the services like individual component or unit. In every Unit-testing micro service tested as unit.
2. Integrate testing
 - After Unit-testing all the services are tested as unit. In integration testing the tested microservice will tested as one service and the service order will decided.

3.Time schedule (Gantt chart)



System's overall design

○ Stakeholder analysis (onion diagram)



Requirement's analysis (Functional, Non-functional, Technical requirements)

Functional Requirements

1. Customer Management: Add, Update, Delete and View Customer Details
2. Payment Management: Add, Update, Delete and View Payment Details
3. Inventor Management: Add, Update, Delete and View Inventor Details
4. Product Management: Add, Update, Delete and View Product details
5. Approvement Management: Add, Update, Delete and View Approvement Details
6. Funder Management: Add, Update, Delete and View Funder Management Details

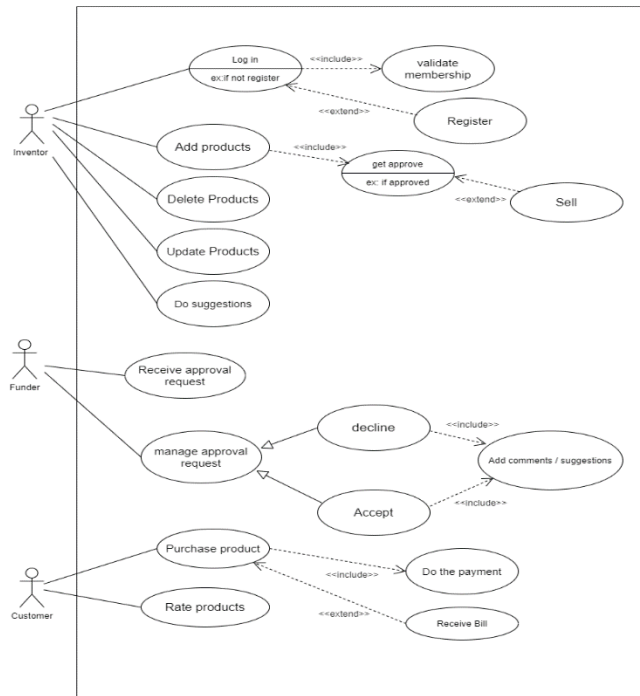
Nonfunctional Requirements

1. Quality, Efficiency, Maintainability, Reliability, Privacy, Accessibility, Compatibility, Extensibility

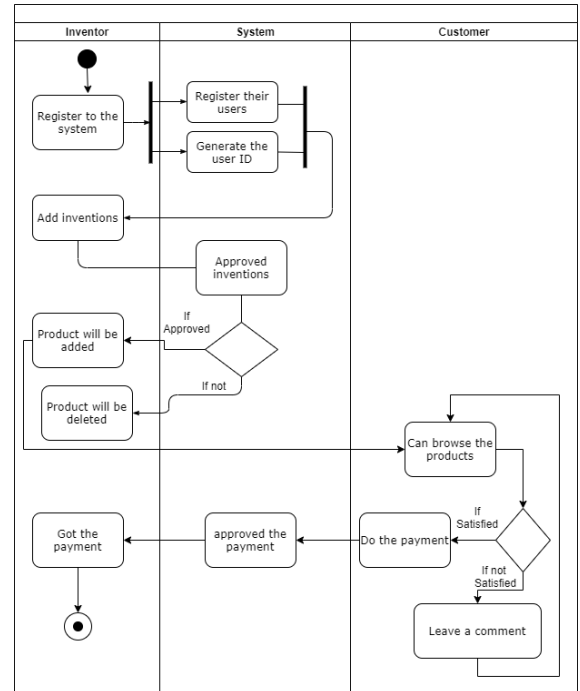
Technical Requirements

The backend is developed using Restful web services **JAX-RS, Jersey, Java on Tomcat** via Eclipse IDE in a windows operating system. My SQL is used in creating database and Postman is an API Client which uses for testing.

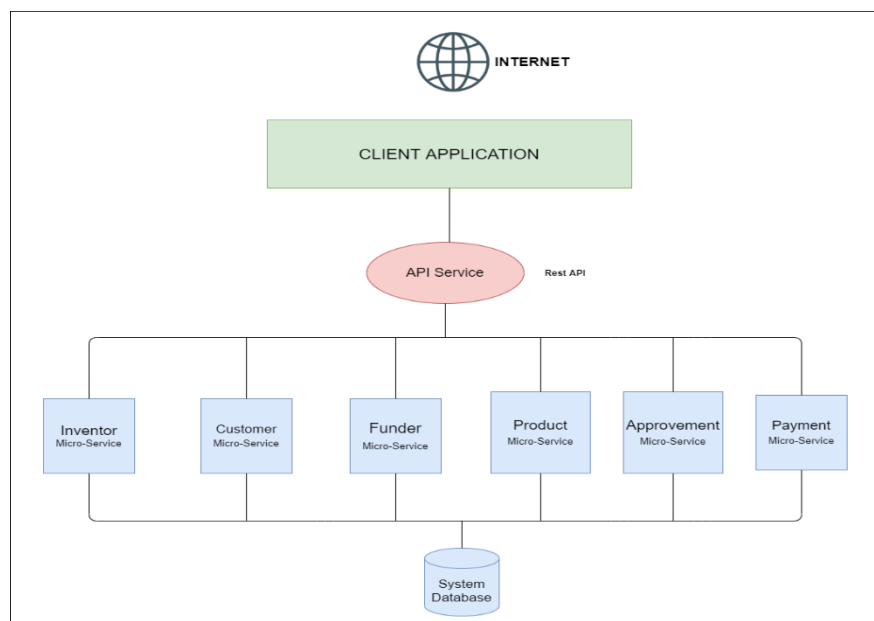
Requirements modelling (Use Case Diagram)



Activity Diagram

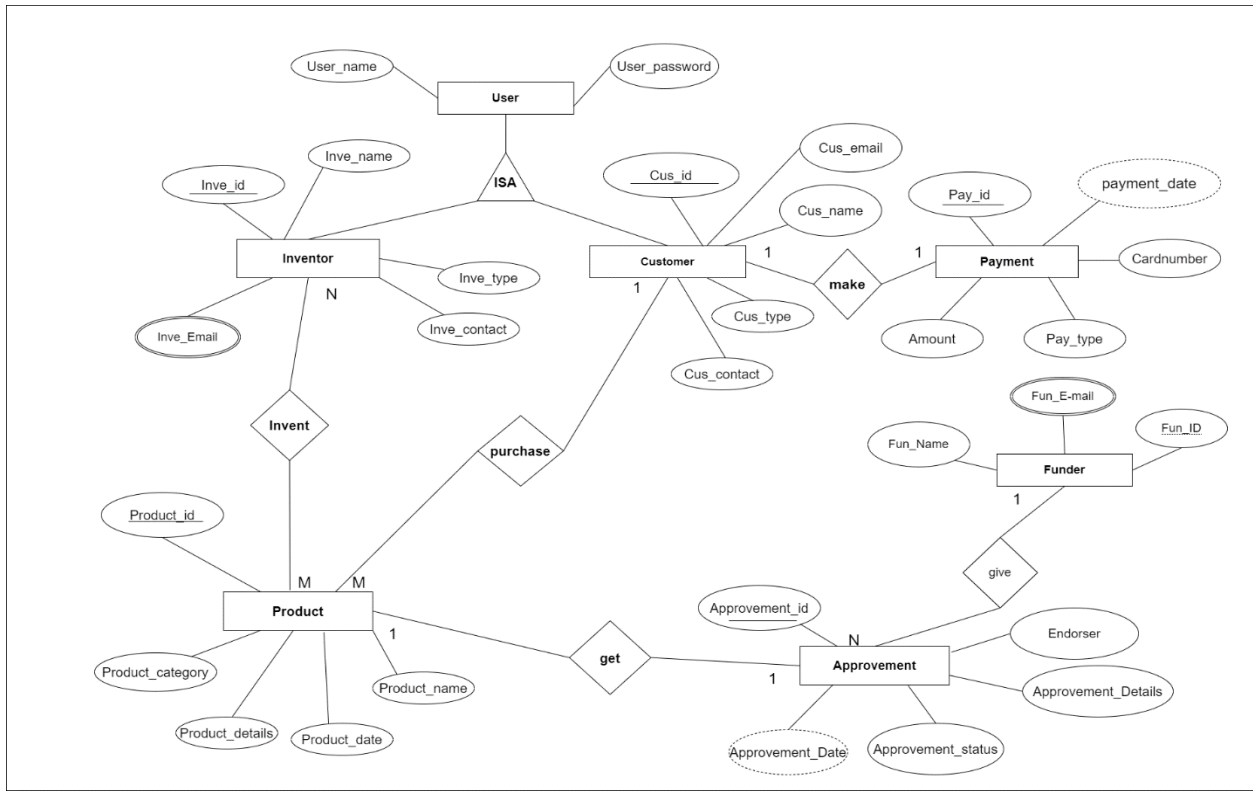


Overall Architecture

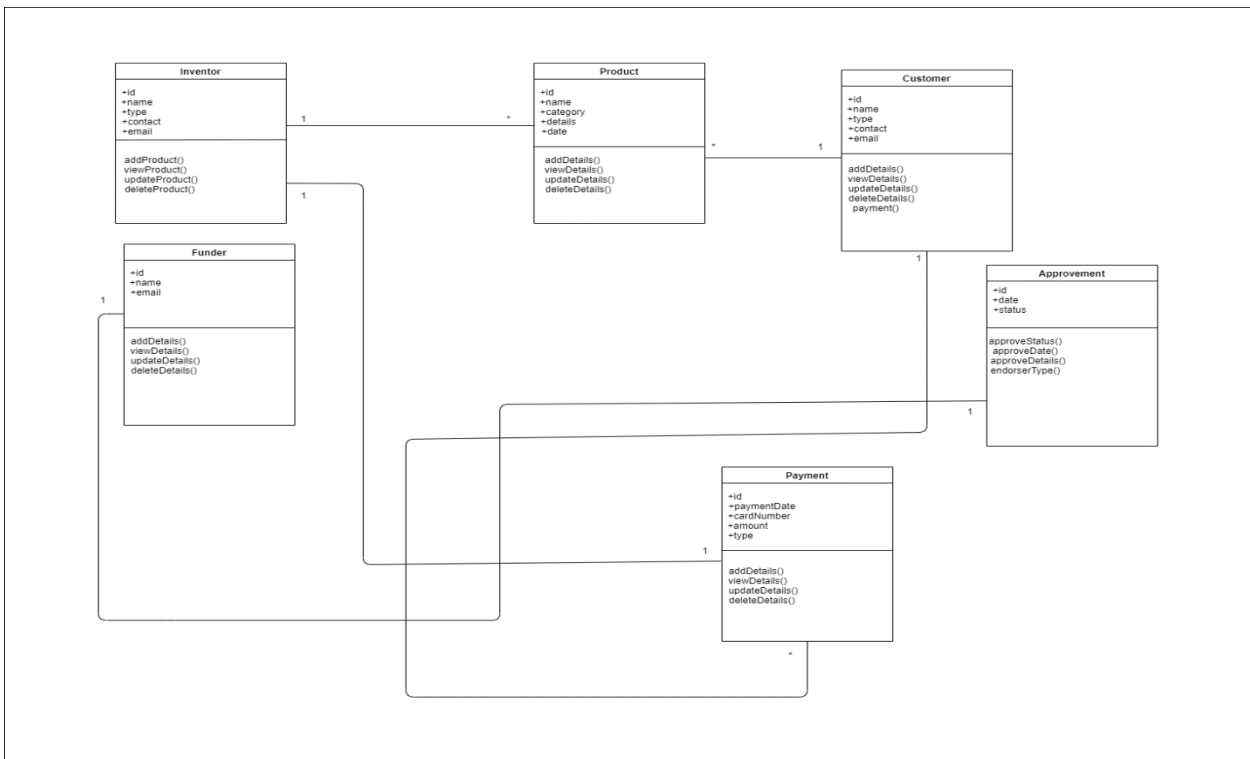


Our task is to create an online platform for a company which provide funds for innovative projects which were done by young inventors. Also, the company will help the inventors to sell their products via the company's online platform. We have allowed the customers to connect with the inventors so inventors can sell the inventions easily through our platform.

ER diagram



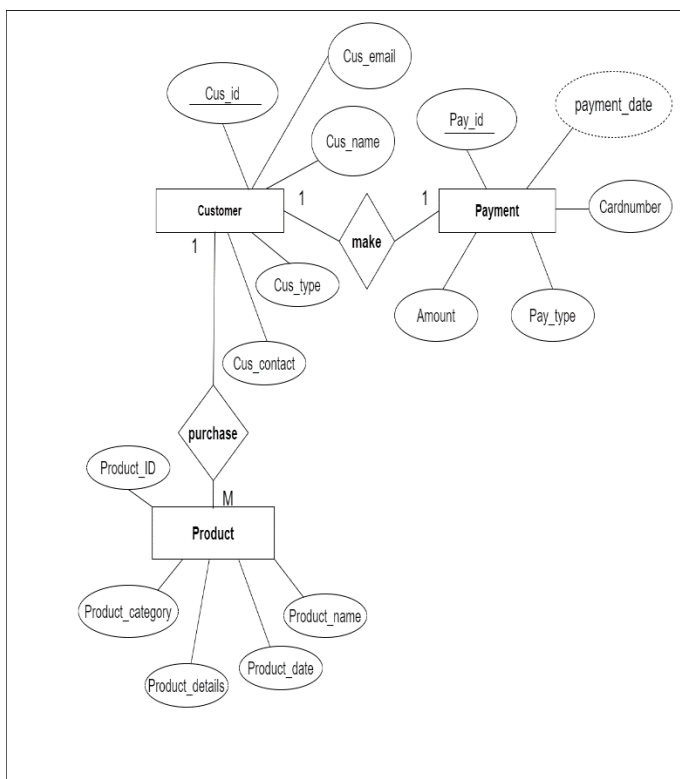
Class diagram



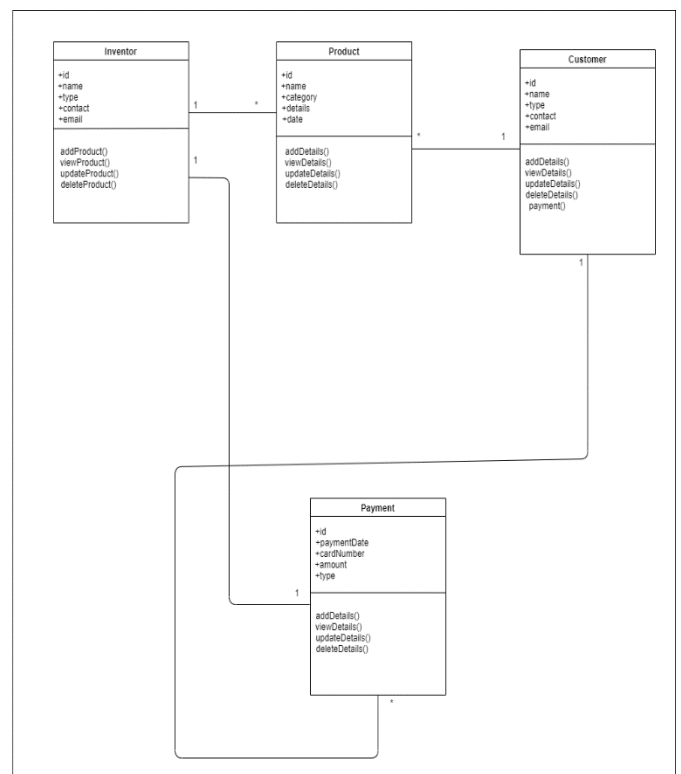
Customer Management and Payment Management

Here the full scope of the customer and Payment management is completed. The respected parties can perform their function successfully though this platform. In customer management the customers can insert, update, delete and view customer details and in payment management the parties can insert, update, delete and view the payment details.

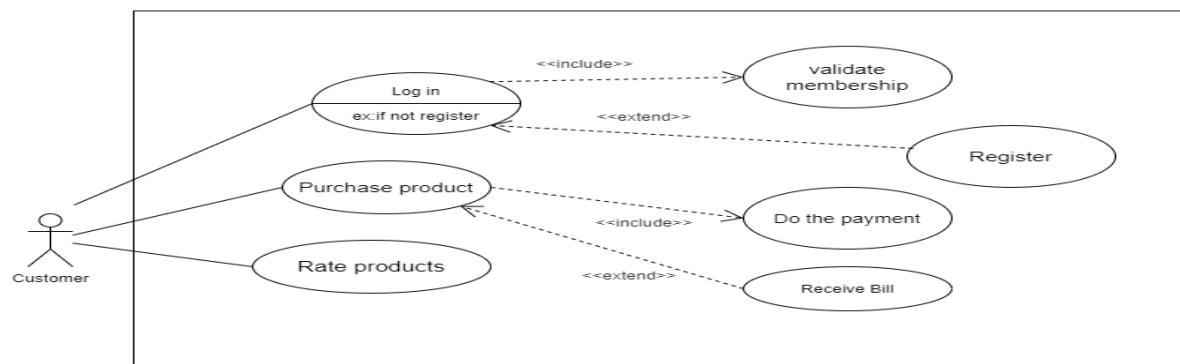
Er Diagram



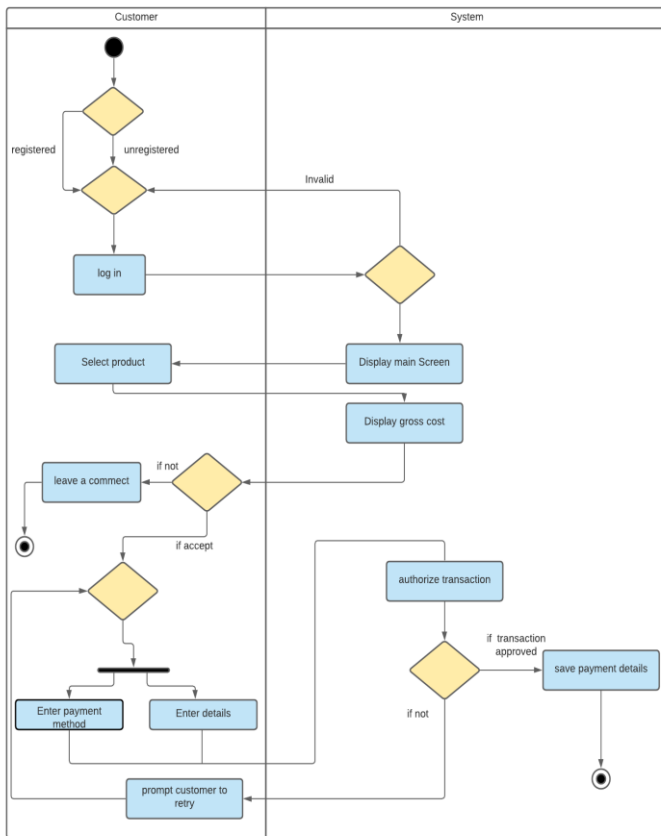
Class Diagram



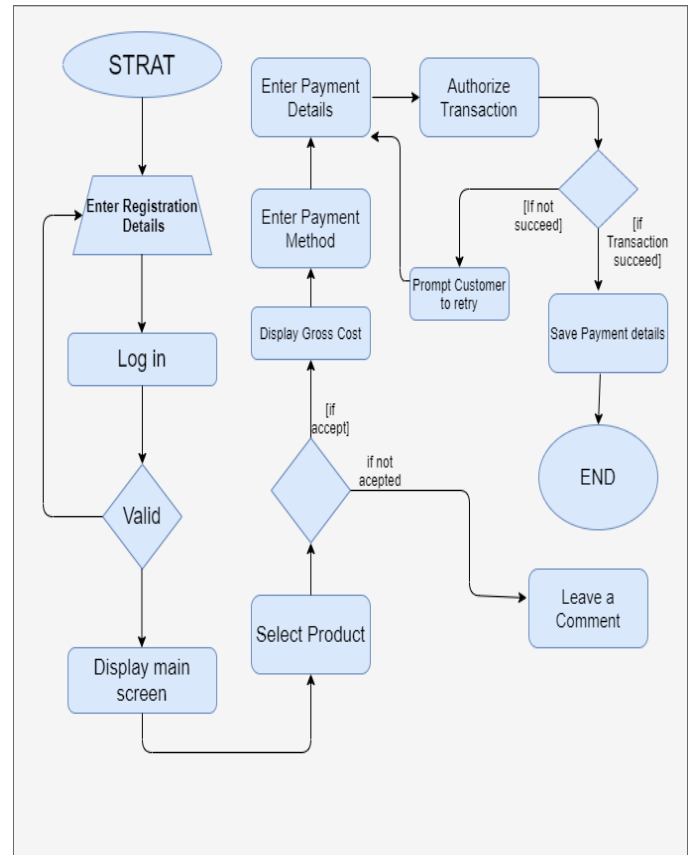
Usecase Diagram



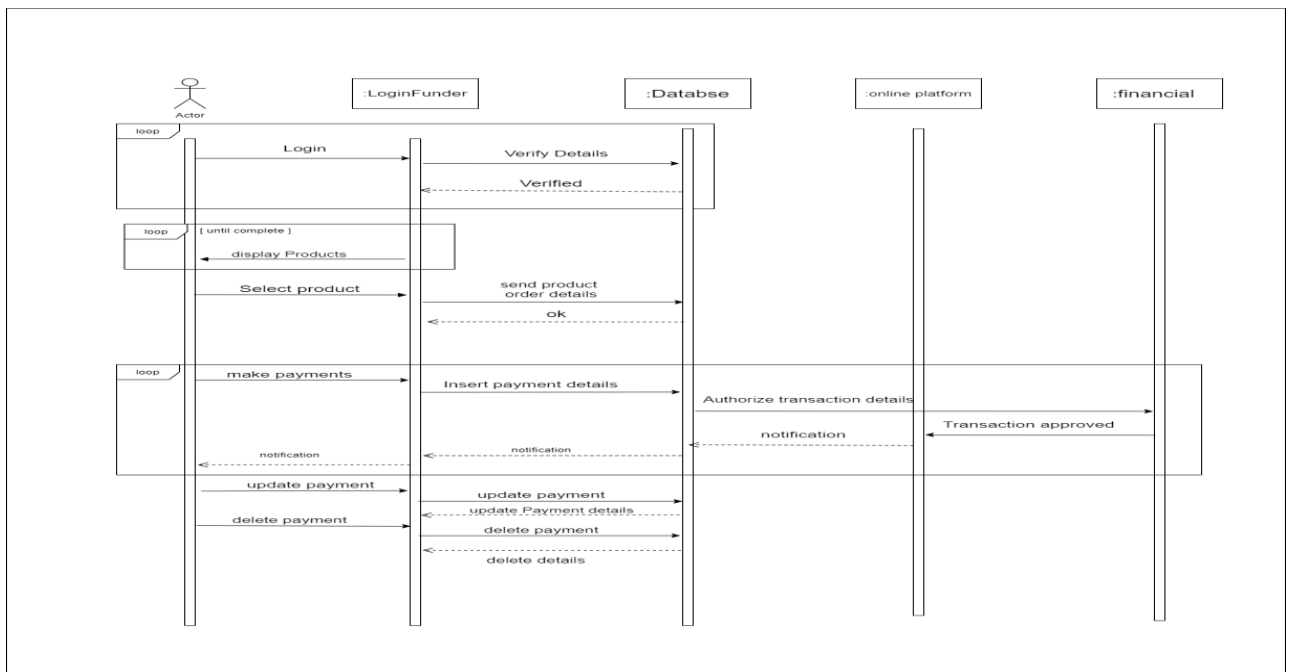
Activity Diagram



Flow Chart

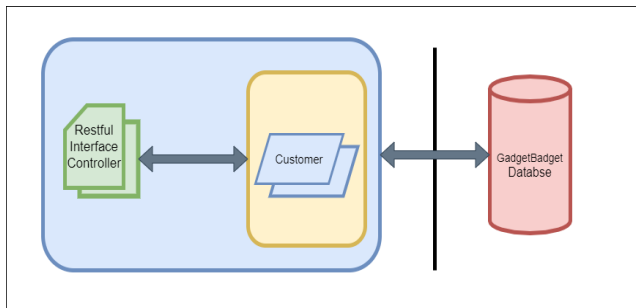


Sequence Diagram

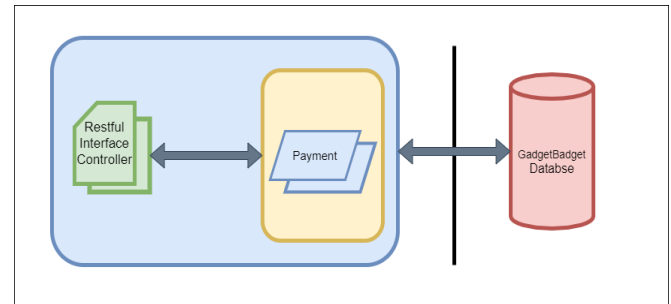


Internal workflow

Customer:



Payment:



API Design Relational

Customer management and payment management is one of the main parts in this system. The Customers can purchase any product which are added by the inventors and with the systems payment management system the customers can easily do their payment. The system is user friendly and low complicated.

- Customers can insert, delete, update and view the customer details
- The payment details also can be inserted, viewed, deleted and updated by the respected party.

Service Development

- Technologies Used: Java - JAX-RS (Jersey) on Tomcat
- IDE : Eclipse
- Database : MySQL
- Testing : POSTMAN

API for get all the Customer details in the database (GET Request)

URL: - <http://localhost:8090/GadgetBadget/CustomerService/Customers>

Request : - { }

Response : - {CustomerID : "Auto generated integer value"}
{CustomerName =:"avinash"}
{CustomerEmail :avinash @gmail.com }
{CustomerType : Loyal customer"}
{CustomerContact : "0715534356"}

API for insert a new Customers to the database (POST Request)

`URL: - <http://localhost:8090/GadgetBadget/CustomerService/Customers>

Request :- {CustomerID : "Auto generated integer value"}
 {CustomerName =:"kulana avinash"}
 {CustomerEmail : kulanaavinash@gmail.com }
 {CustomerType : Need-based customer"}
 {CustomerContact : "0713333333"}

Response :- { Result = "Inserted successfully" }
 { CustomerID = "Auto generated integer value"
 { Error= "Error while inserting"}

API for update a Customers which is existing in database (PUT Request)

`URL: - <http://localhost:8090/GadgetBadget/CustomerService/Customers>

Request :- {CustomerID : "Auto generated integer value"}
 {CustomerName =:"kulana avinash"}
 {CustomerEmail : kulanaavinash@gmail.com }
 {CustomerType : Need-based customer"}
 {CustomerContact : "0713333333"}

Response :- { Result = "Updated successfully" }
 { CustomerID = "Auto generated integer value"
 { Error= "Error while Updating"}

API for delete a Customers which is existing in database (DELETE Request)

URL: - <http://localhost:8090/GadgetBadget/CustomerService/Customers>

Request :- { CustomerID = " Selected Customer ID from the service "}

Response :- { Result = "Deleted successfully" }
 {Error = "Error while deleting the hospital" }

API for get all the Payment details in the database (GET Request)

URL: - <http://localhost:8090/GadgetBadget/PaymentService/Payments>

Request : - { }

Response : - {PaymentID = "Auto generated integer value"}

{ PaymentDate = "12.09.2017" }
{ CardNumber = "12334335454664" }
{ Amount = "130000.00 " }
{ PaymentType = "Cash" }

API for insert a new Payment to the database (POST Request)

URL: - <http://localhost:8090/GadgetBadget/PaymentService/Payments>

Request : - { PaymentID: "Auto generated integer value" }
{ PaymentDate = "12.09.2017" }
{ CardNumber = "43636754744343546" }
{ Amount = "12000.00 " }
{ PaymentType = "Cash" }

Response :- { Result = "Inserted successfully" }
{ PaymentID = "Auto generated integer value" }
{ Error = "Error while inserting" }

API for update a Payment which is existing in database (PUT Request)

URL: - <http://localhost:8090/GadgetBadget/PaymentService/Payments>

Request : - { PaymentID: "Auto generated integer value" }
{ PaymentDate = "11.08.2019" }
{ CardNumber = "54564365745734653" }
{ Amount = "11000.00 " }
{ PaymentType = "Check" }

Response :- { Result = "Updated successfully" }
{ PaymentID = "Auto generated integer value" }
{ Error = "Error while Updating " }

API for delete a Payment which is existing in database (DELETE Request)

URL: - <http://localhost:8090/GadgetBadget/PaymentService/Payments>

Request :- { PaymentID = " Selected PaymentID from the service " }

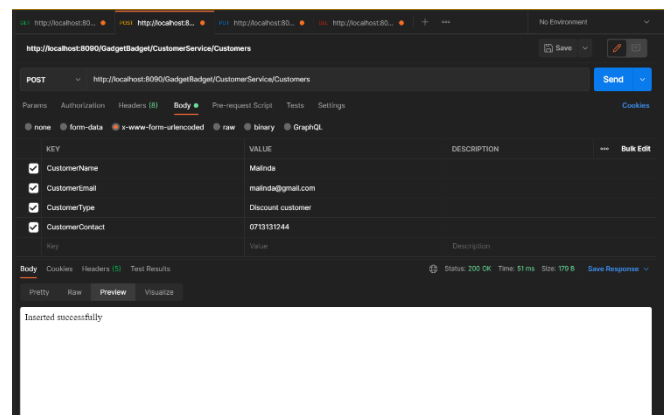
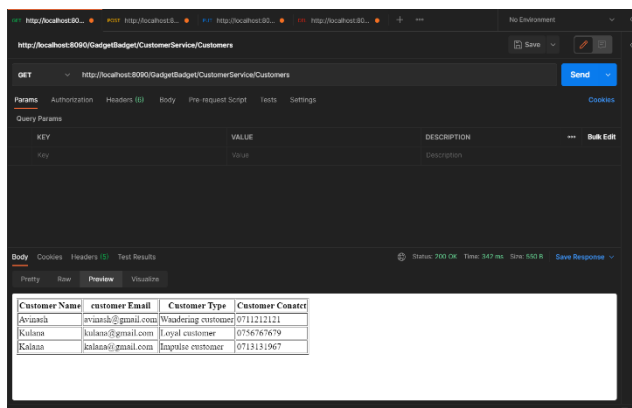
Response :- { Result = "Deleted successfully" }
{Error = "Error while deleting the Payment Details" }

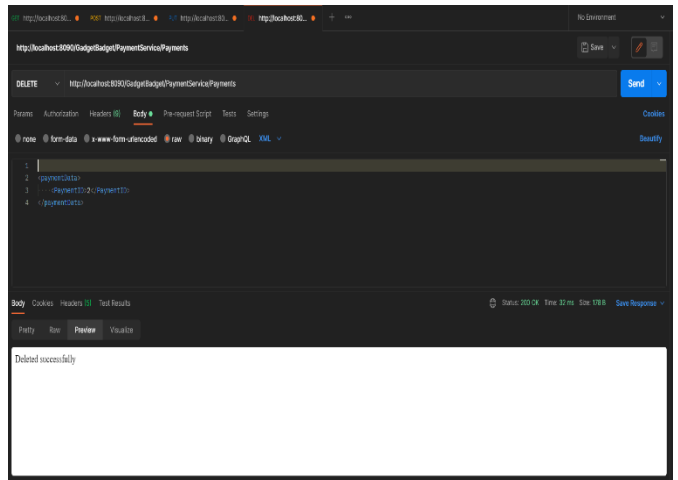
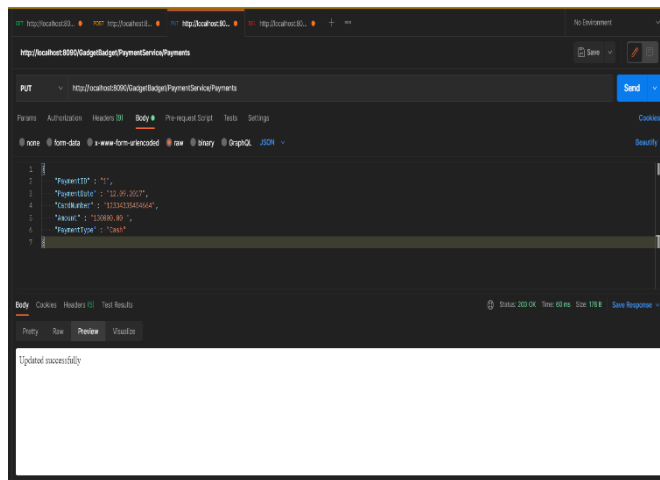
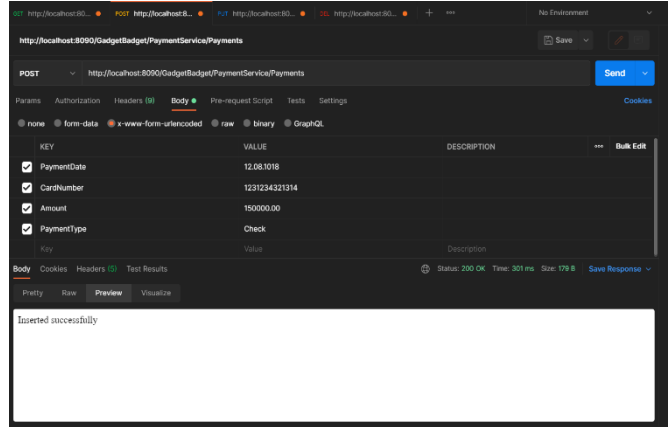
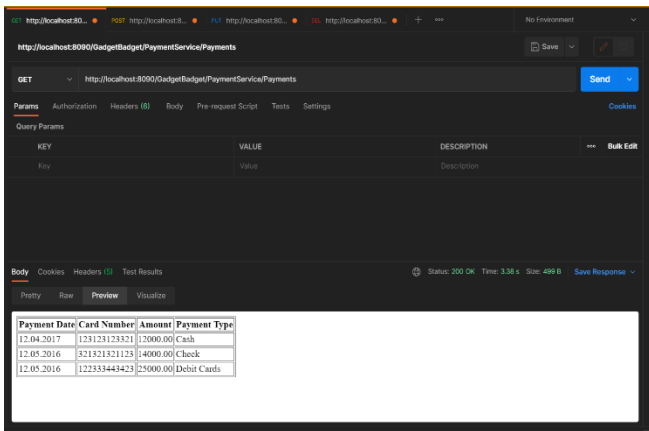
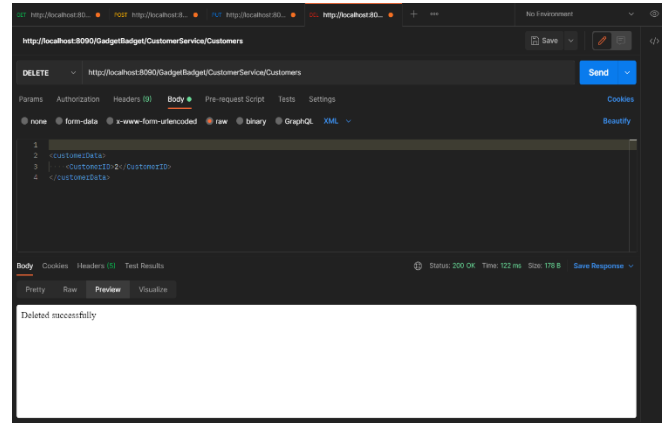
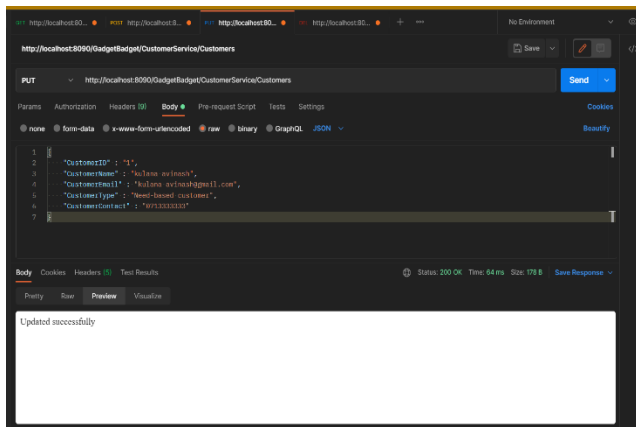
Test Cases

TestID	Test Description/ Test Steps	Test Input(s)	Expected Output(s)	Actual Output(s)	Result (Pass/Fail)
1	Add Customer Details	{CustomerName : "avinash"} {CustomerEmail : avinash@gmail.com } {CustomerType :Loyalcustomer"} {CustomerContact:"0715534356"}	New Customer details are added to the database. Show message as "Inserted successfully".	New Customer details are added to the database. Show message as "Inserted successfully".	PASS
2	Update Customer Details	{ "CustomerID" : "1", "CustomerName" : "kulana avinash", "CustomerEmail" : "kulana avinash@gmail.com", "CustomerType" : "Need-based customer", "CustomerContact" : "0713333333" }	Customer details are updated according to relevant input Customer details. Show message as "Updated successfully".	Customer details are updated according to relevant input Customer details. Show message as "Updated successfully".	PASS
3	Delete Customer Details	<customerData> <CustomerID>1</CustomerID> </customerData>	Show message as "Deleted Successfully"	Customer Details are deleted successfully. Show message as "Deleted Successfully"	PASS

TestID	Test Description/ Test Steps	Test Input(s)	Expected Output(s)	Actual Output(s)	Result (Pass/Fail)
1	Add Payment Details	{PaymentDate" = "12.09.2017"} {CardNumber = "12334335454664"} {Amount = "130000.00 " {PaymentType = "Cash"}	New Payment details are added to the database. Show message as "Inserted successfully".	New Payment details are added to the database. Show message as "Inserted successfully".	PASS
2	Update Payment Details	"PaymentID" : "1", "PaymentDate" : "12.09.2017", "CardNumber" : "12334335454664", "Amount": "130000.00 ", "PaymentType": "Cash"	Payment details are updated according to relevant input Payment details. Show message as "Updated successfully".	Customer details are updated according to relevant input Payment details. Show message as "Updated successfully".	PASS
3	Delete Payment Details	<paymentData> <PaymentID>1</PaymentID> </paymentData>	Show message as "Deleted Successfully"	Payments Details are deleted successfully. Show message as "Deleted Successfully"	PASS

Testing





IT19117942 (Ganepola A.M.T.G)

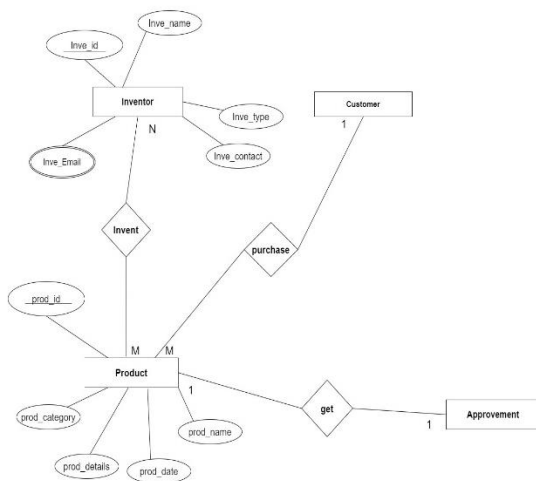
URL: <http://localhost:8090/GadgetBadget/InventorService/Inventors>

<http://localhost:8090/GadgetBadget/ProductService/Products>

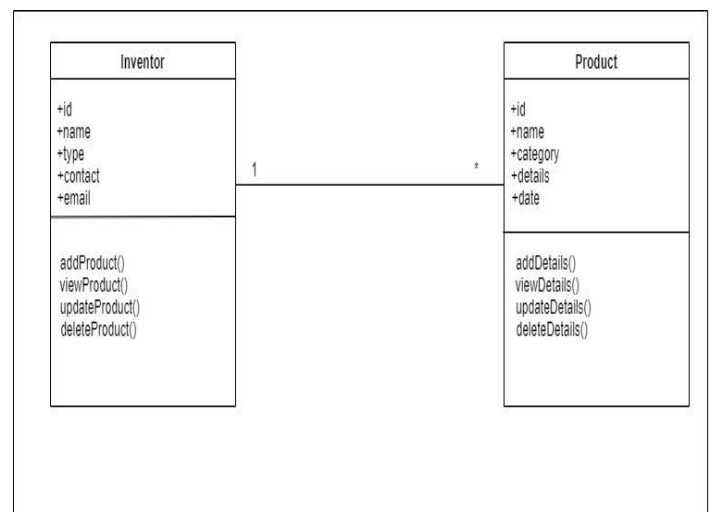
Inventor Management and Product Management

Inventors are the group of users who invent the products, so in this the full scope of inventor management and product management is completed. The inventors can insert, update, delete and view the inventor details and, they can insert, update, delete and view the respected product details.

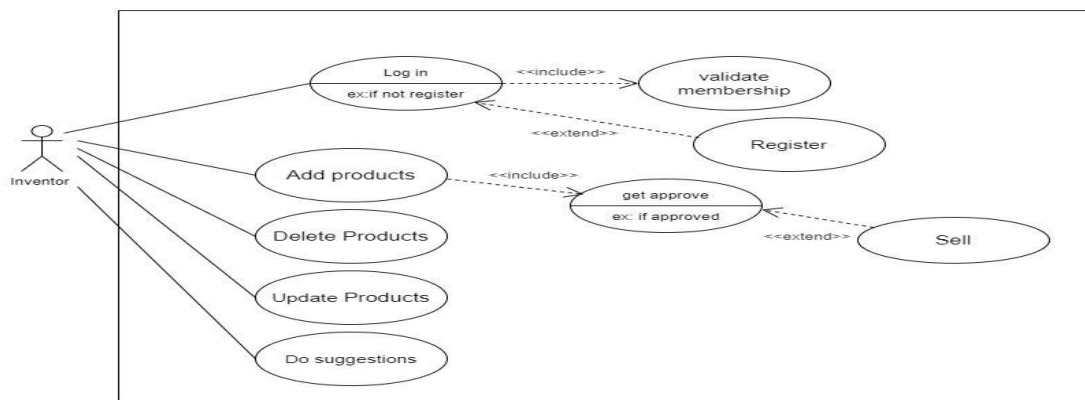
Er Diagram



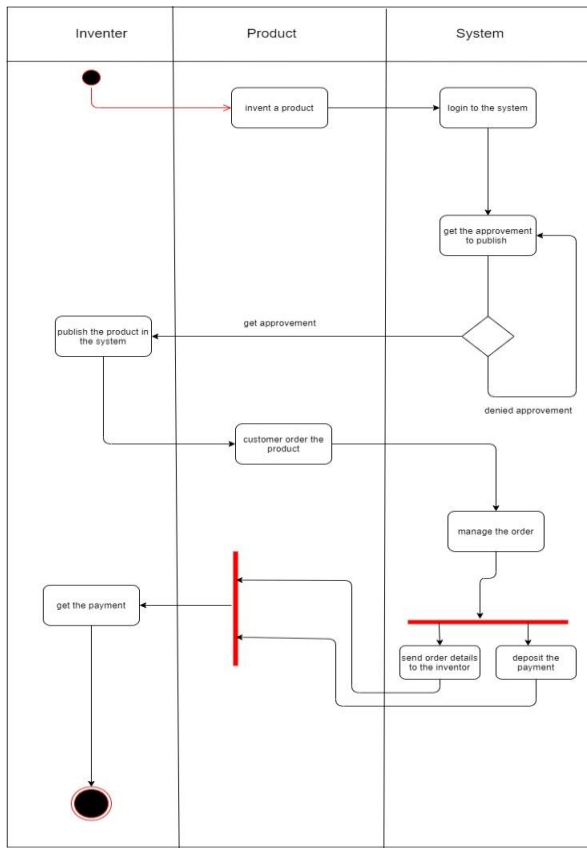
Class Diagram



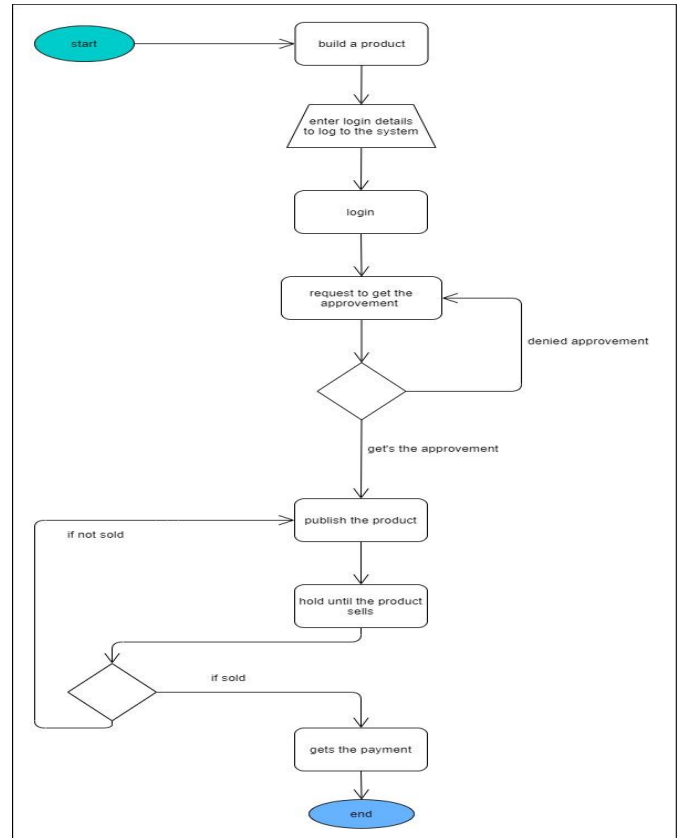
Usecase Diagram



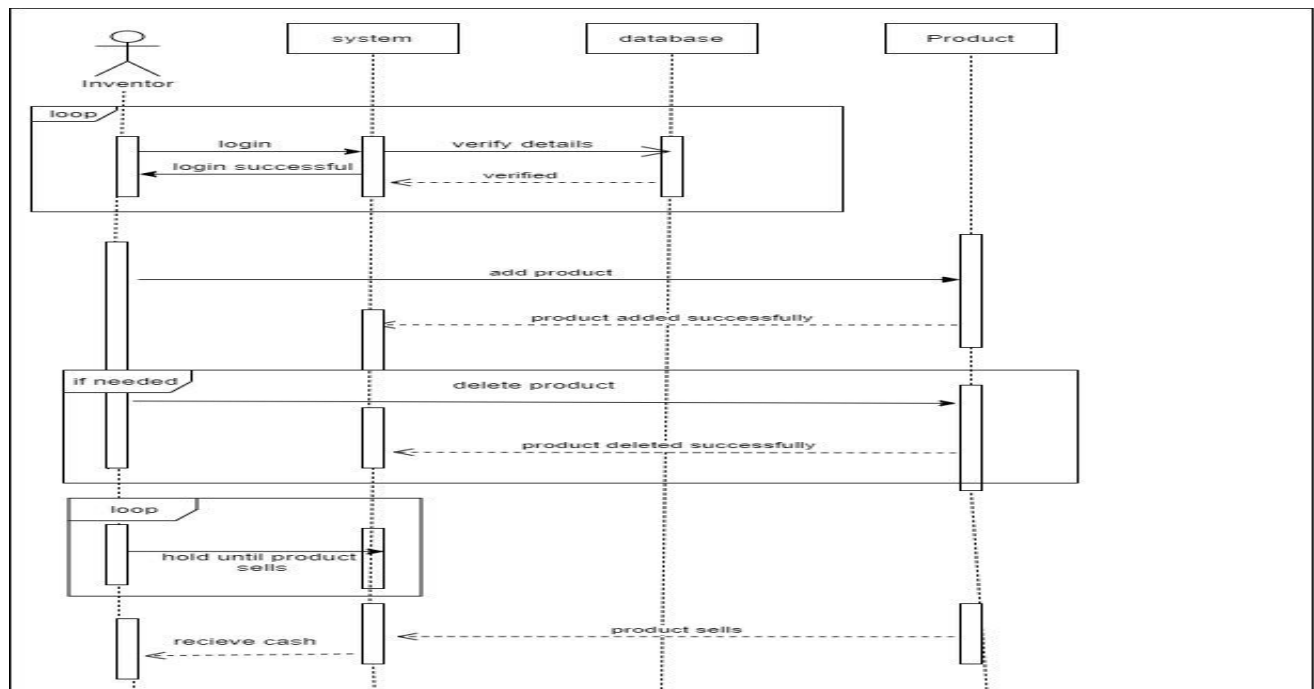
Activity Diagram



Flow Chart

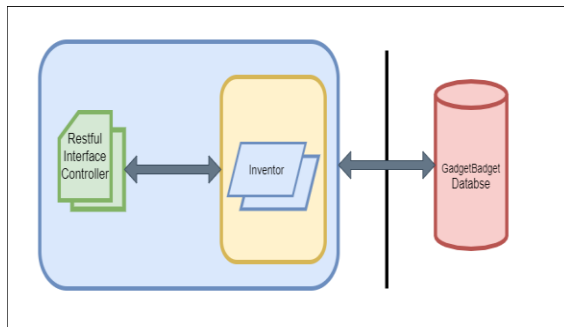


Sequence Diagram

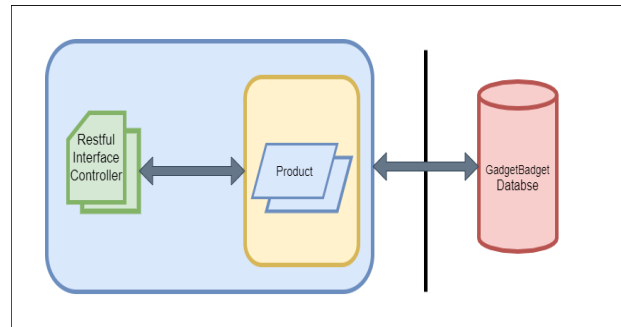


Internal workflow

Inventor:



Product:



API Design Relational

In inventor and product management the inventors can add their developed inventions as products to the system so the customers can purchase them. The inventors can easily register to the system and get the approvement from the company in order to add their products to the system. The inventor and payment management systems are user friendly and low complicated.

- Inventors can insert, delete, update and view the inventor details.
- In the product management the inventors can add, view, delete and update the product details easily.

Service Development

- Technologies Used: Java - JAX-RS (Jersey) on Tomcat
- IDE : Eclipse
- Database : MySQL
- Testing : POSTMAN

API for get all the Inventor details in the database (GET Request)

URL: - <http://localhost:8090/GadgetBadget/InventorService/Inventors>

Request : - { }

Response : - {InventorID : "Auto generated integer value"}
{InventorName =:"Malinda"}
{InventorEmail :malinda@gmail.com }
{InventorContact : 0714444464"}
{InventorType: "School Leaver"}

API for insert a new Inventor to the database (POST Request)

`URL: - <http://localhost:8090/GadgetBadget/InventorService/Inventors>

Request : - {InventorID : "Auto generated integer value"}
 {InventorName : "Malinda Ganepola"}
 {InventorEmail: malindaganepola@gmail.com }
 {InventorContact: "0965434665"}
 {InventorType: "School Leaver"}
Response :- { Result = "Inserted successfully" }
 { InventorID = "Auto generated integer value"
 { Error= "Error while inserting"}}

API for update Inventor which is existing in database (PUT Request)

`URL: - <http://localhost:8090/GadgetBadget/InventorService/Inventors>

Request : - { InventorID: "Auto generated integer value"}
 { InventorName =:"malinda "}
 { InventorEmail: malinda@gmail.com }
 { InventorContact: 0713333333"}
 { InventorType: "School Leaver"}
Response :- { Result = "Updated successfully" }
 { InventorID = "Auto generated integer value"
 { Error= "Error while Updating"}}

API for delete a Inventor which is existing in database (DELETE Request)

URL: - <http://localhost:8090/GadgetBadget/InventorService/Inventors>

Request :- { InventorID = " Selected InventorID from the service "}
Response :- { Result = "Deleted successfully" }
 {Error = "Error while deleting the Inventor details" }

API for get all the Products details in the database (GET Request)

URL: - <http://localhost:8090/GadgetBadget/ProductService/Products>

Request : - { }

Response : - {ProductID : "Auto generated integer value"}
{ProductName =:"Driverless car"}
{ProductDate : "12.11.2016"}
{ProductDetails : "Tesla is among many tech companies "}
{ProductType: "Other"}

API for insert a new Products to the database (POST Request)

URL: - <http://localhost:8090/GadgetBadget/ProductService/Products>

Request : - {ProductID : "Auto generated integer value"}
{ProductName : "Driverless car"}
{ProductDate : "12.11.2016"}
{ProductDetails : "Tesla is among many tech companies "}
{ProductType: "Other"}

Response :- { Result = "Inserted successfully" }
{ ProductID = "Auto generated integer value"
{ Error= "Error while inserting"}

API for update Products which is existing in database (PUT Request)

URL: - <http://localhost:8090/GadgetBadget/ProductService/Products>

Request : - { ProductID: "Auto generated integer value"}
{ ProductName =:"Hidden Camera "}
{ ProductDate: "12.08.2019"}
{ ProductDetails: "Vision care hearing ai solution"}
{ ProductType: "Medical"}

Response :- { Result = "Updated successfully" }
{ ProductID = "Auto generated integer value" }
{ Error= "Error while Updating"}

API for delete a Products which is existing in database (DELETE Request)

URL: - <http://localhost:8090/GadgetBadget/ProductService/Products>

Request :- { ProductID = " Selected ProductID from the service " }

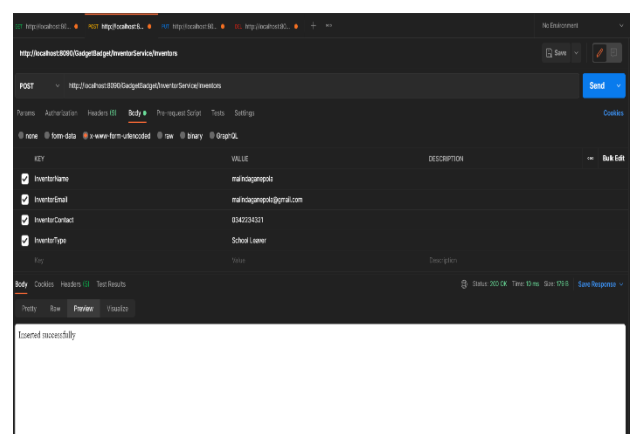
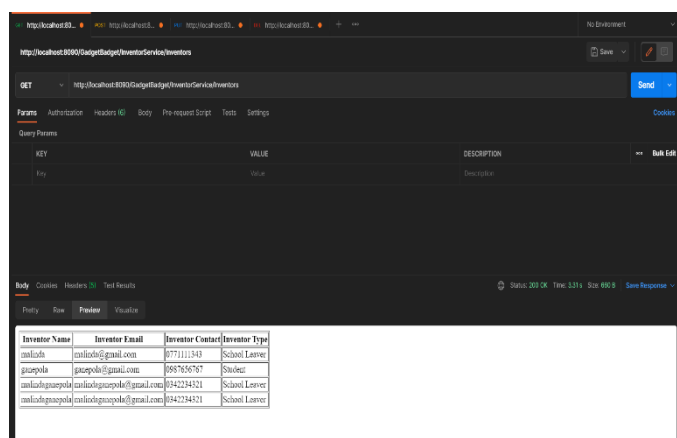
Response :- { Result = "Deleted successfully" }
{Error = "Error while deleting the Product details"}

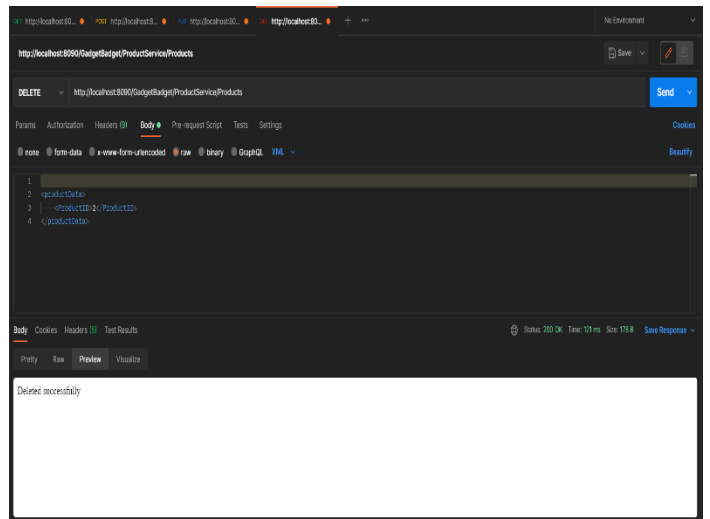
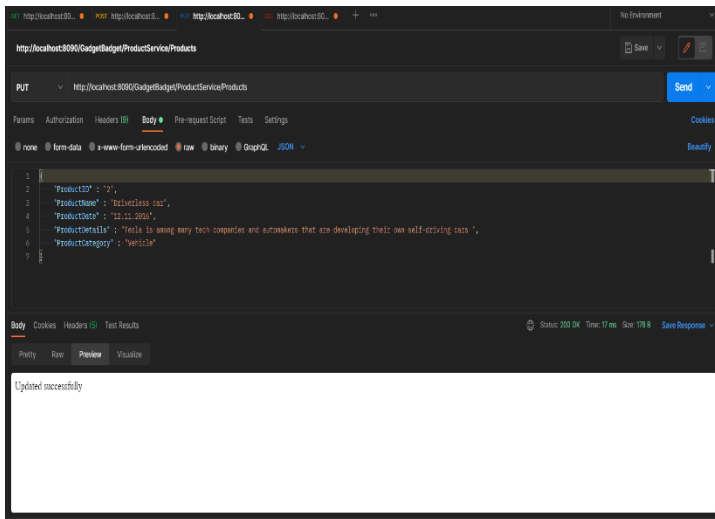
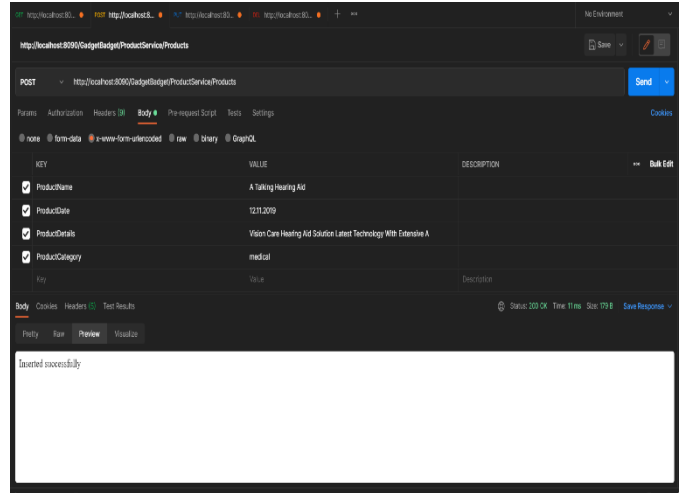
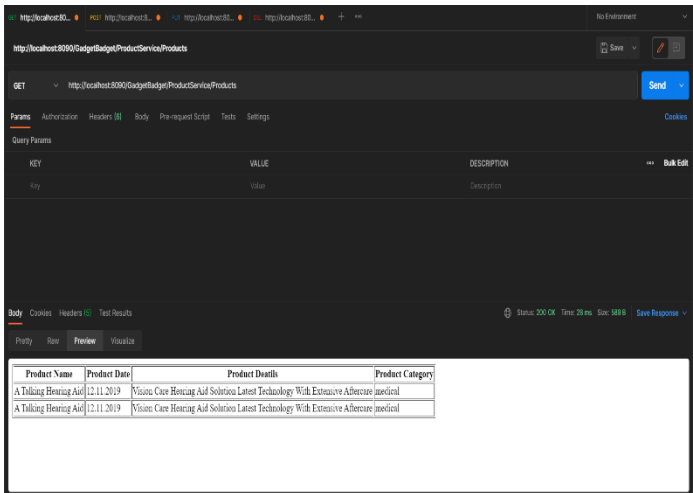
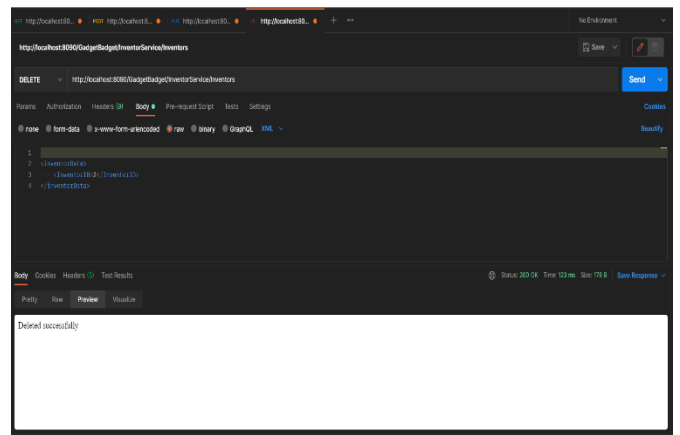
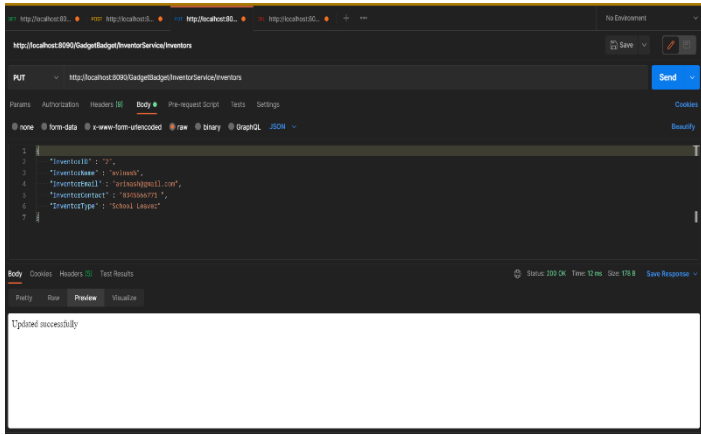
Test Cases

TestID	Test Description/ Test Steps	Test Input(s)	Expected Output(s)	Actual Output(s)	Result (Pass/Fail)
1	Add Inventor Details	{InventorName =:"Malinda"} {InventorEmail :malinda@gmail.com } {InventorContact : 0714444464"} {InventorType: "School Leaver"}	New Inventor details are added to the database. Show message as "Inserted successfully".	New Inventor details are added to the database. Show message as "Inserted successfully".	PASS
2	Update Inventor Details	{ "InventorID" : "2", "InventorName" : "malindaganepola", "InventorEmail" : " malindaganepola @gmail.com", "InventorContact" : "0345566771 ", "InventorType" : "School Leaver" }	Inventor details are updated according to relevant input Inventor details. Show message as "Updated successfully".	Inventor details are updated according to relevant input Inventor details. Show message as "Updated successfully".	PASS
3	Delete Inventor Details	<inventorData> <InventorID>2</InventorID> </inventorData>	Show message as "Deleted Successfully"	Inventor Details are deleted successfully. Show message as "Deleted Successfully"	PASS

TestID	Test Description/ Test Steps	Test Input(s)	Expected Output(s)	Actual Output(s)	Result (Pass/Fail)
1	Add Products Details	{ProductName =:"Driverless car"} {ProductDate : "12.11.2016"} {ProductDetails : "Tesla is among many tech companies "} {ProductType: "Other"}	New Products details are added to the database. Show message as "Inserted successfully".	New Products details are added to the database. Show message as "Inserted successfully".	PASS
2	Update Products Details	{ "ProductID" : "1", "ProductName" : "Driverless car", "ProductDate" : "12.11.2016", "ProductDetails" : "Tesla is among many tech ", "ProductCategory" : "Vehicle" }>	Products details are updated according to relevant input Products details. Show message as "Updated successfully".	Products details are updated according to relevant input Products details. Show message as "Updated successfully".	PASS
3	Delete Products Details	<inventorData> <InventorID>2</InventorID> </inventorData>	Show message as "Deleted Successfully"	Products Details are deleted successfully. Show message as "Deleted Successfully"	PASS

Testing

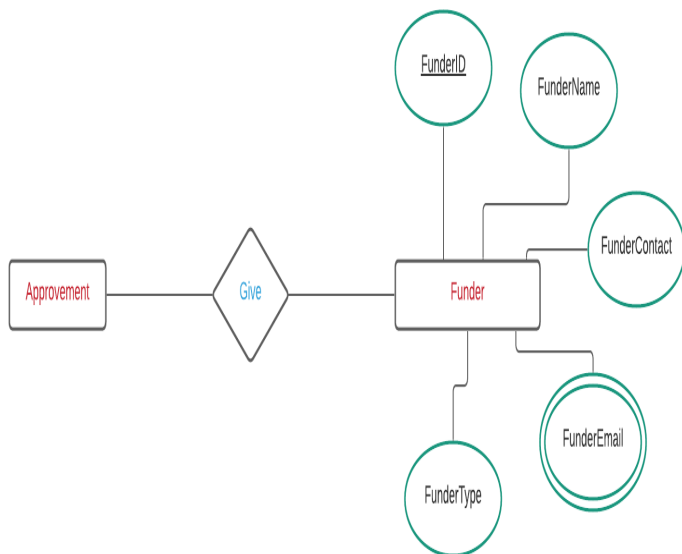




Funder Management

Inhere the full scope of funder management is completed where the funding part of the company can be successfully completed through this management system. In funder management the details can be inserted, updated, deleted and viewed.

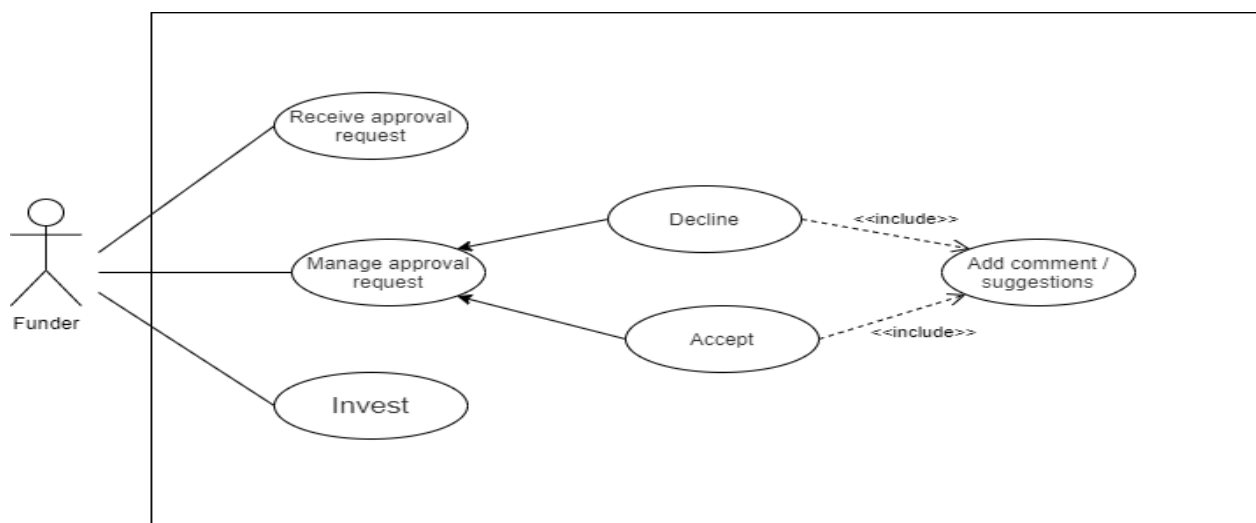
Er Diagram



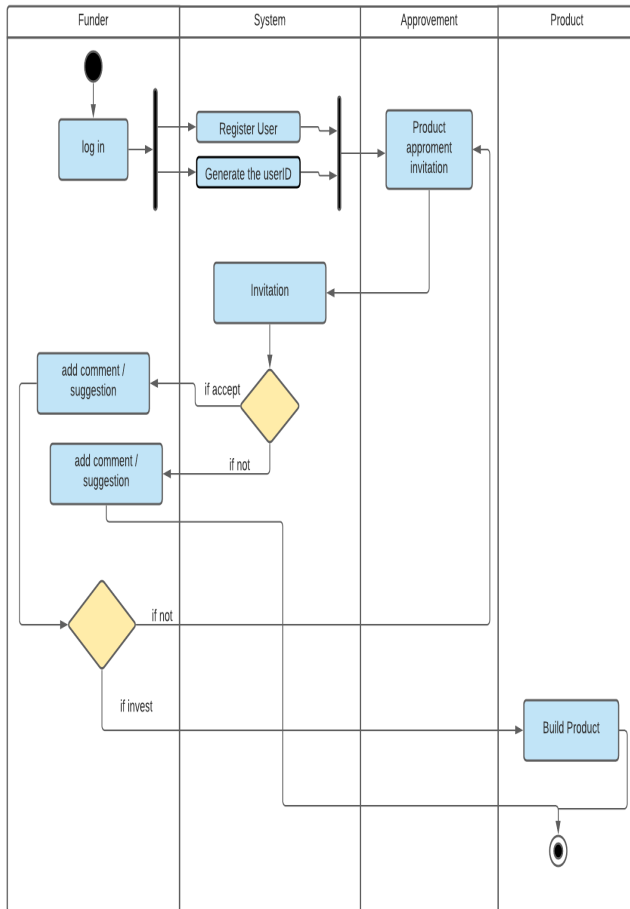
Class Diagram



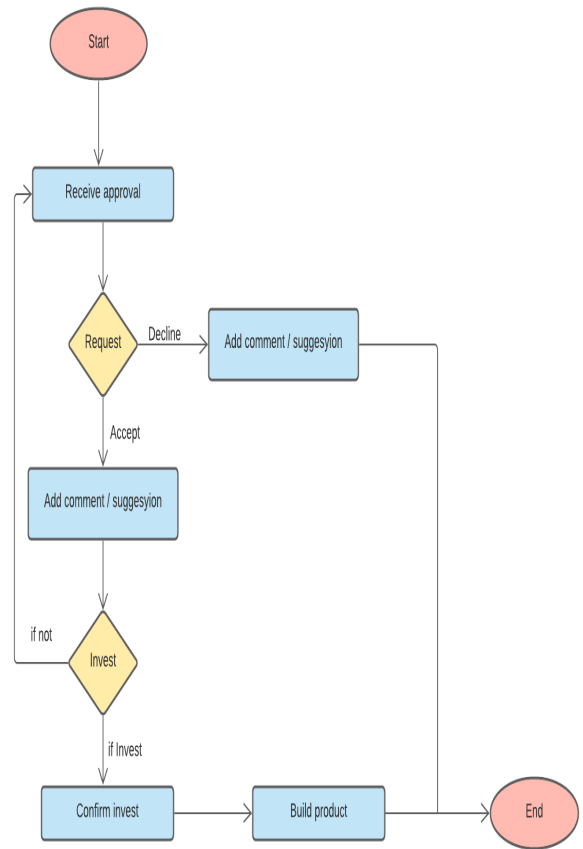
Usecase Diagram



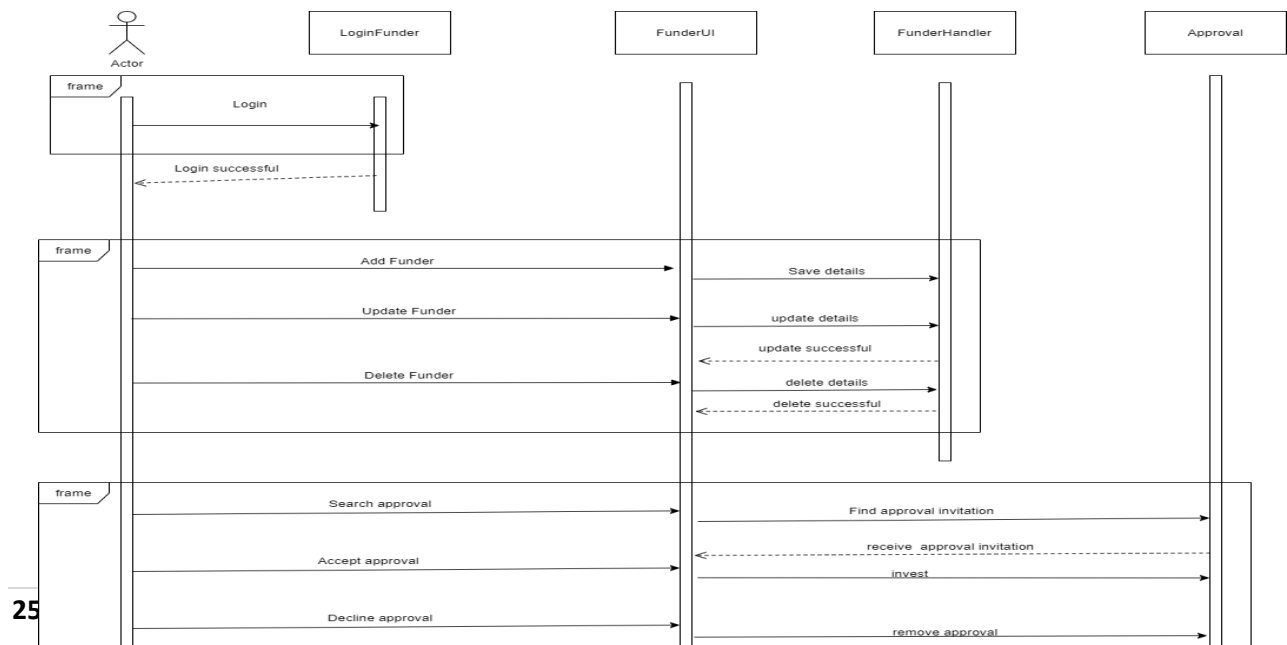
Activity Diagram



Flow Chart

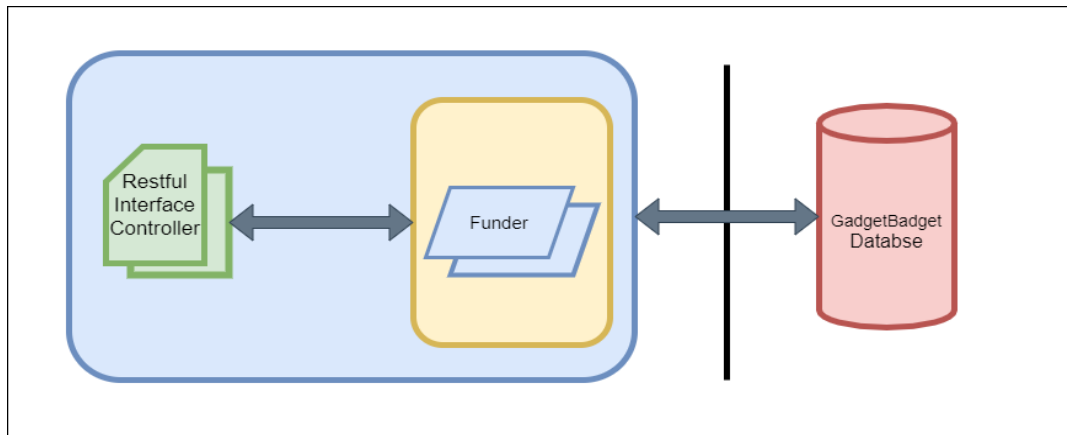


Sequence Diagram



Internal workflow

Funder:



API Design Relational

In funder management, funders are the party which funds the inventors to build their valued products. The funder management is user friendly and easy to understand with less complication.

- The funders can add their details, delete, view and update them.

Service Development

- Technologies Used: Java - JAX-RS (Jersey) on Tomcat
- IDE : Eclipse
- Database : MySQL
- Testing : POSTMAN

API for get all the Funder details in the database (GET Request)

URL: - <http://localhost:8090/GadgetBadget/FunderService/Funders>

Request : - { }

Response : - {FunderID : "Auto generated integer value"}
{FunderName =:"pathum "}
{FunderEmail :pathum@gmail.com }
{FunderContact : 0714444464"}
{FunderType: "Government"}

API for insert a new Funder to the database (POST Request)

`URL: - <http://localhost:8090/GadgetBadget/FunderService/Funders>

Request : - FunderID : "Auto generated integer value"
{FunderName =:"pathum "}
{FunderEmail :pathum@gmail.com }
{FunderContact : 0714444464}
{FunderType: "Government"}

Response :- { Result = "Inserted successfully" }
{ FunderID = "Auto generated integer value"
{ Error= "Error while inserting"}

API for update Funder which is existing in database (PUT Request)

`URL: -<http://localhost:8090/GadgetBadget/FunderService/Funders>

Request : - FunderID : "Auto generated integer value"
{FunderName =:"pathumwijerathne "}
{FunderEmail :pathumwijerathne@gmail.com }
{FunderContact : 07189844464}
{FunderType: "Government"}

Response :- { Result = "Updated successfully" }
{ FunderID = "Auto generated integer value"
{ Error= "Error while Updating"}

API for delete a Funder which is existing in database (DELETE Request)

URL: - <http://localhost:8090/GadgetBadget/FunderService/Funders>

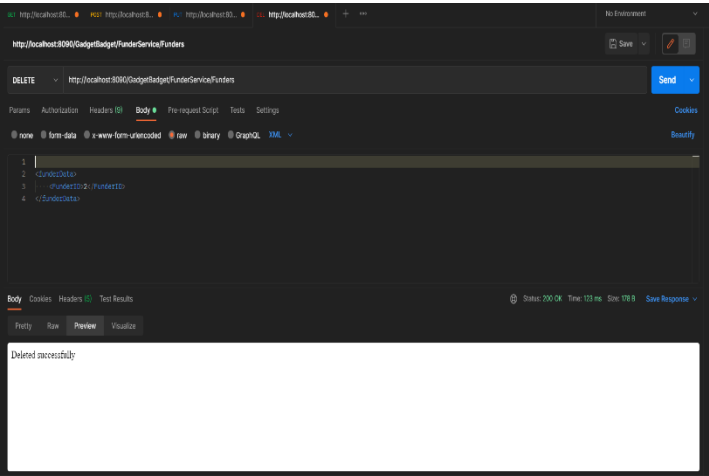
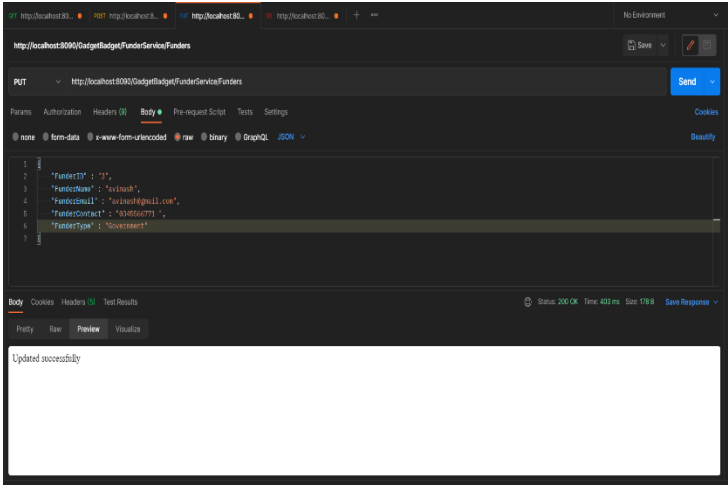
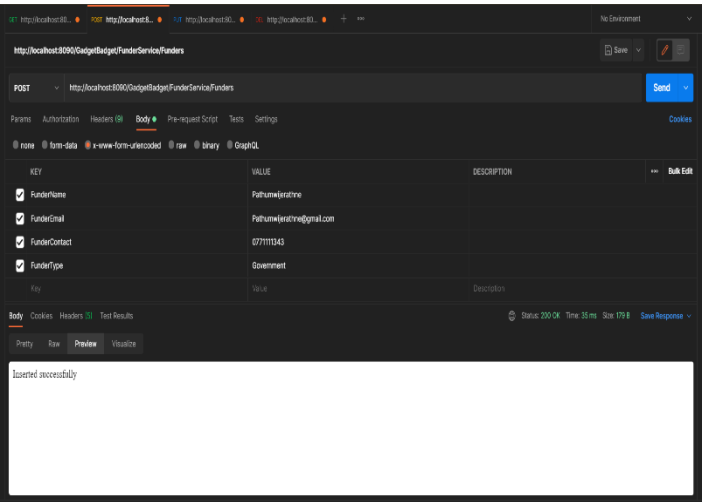
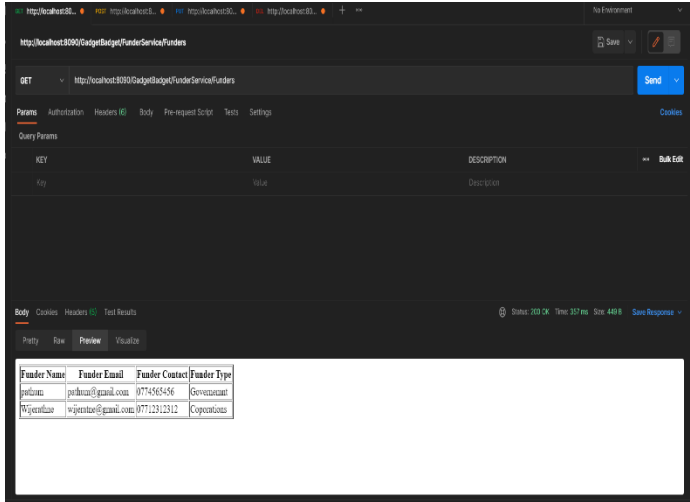
Request :- { FunderID = " Selected FunderID from the service "}

Response :- { Result = "Deleted successfully" }
{Error = "Error while deleting the Funder details" }

Test Cases

TestID	Test Description/ Test Steps	Test Input(s)	Expected Output(s)	Actual Output(s)	Result (Pass/Fail)
1	Add Funder Details	{FunderName =:"pathum "} {FunderEmail :pathum@gmail.com } {FunderContact : 0714444464"} {FunderType: "Government"}	New Funder details are added to the database. Show message as "Inserted successfully".	New Funder details are added to the database. Show message as "Inserted successfully".	PASS
2	Update Funder Details	{"FunderID" : "3", "FunderName" : "avinash", "FunderEmail" : "avinash@gmail.com", "FunderContact" : "0345566771 ", "FunderType" : "Government" }	Funder details are updated according to relevant input Funder details. Show message as "Updated successfully".	Funder details are updated according to relevant input Funder details. Show message as "Updated successfully".	PASS
3	Delete Funder Details	<funderData> <FunderID>2</FunderID> </funderData>	Show message as "Deleted Successfully"	Funder Details are deleted successfully. Show message as "Deleted Successfully"	PASS

Testing



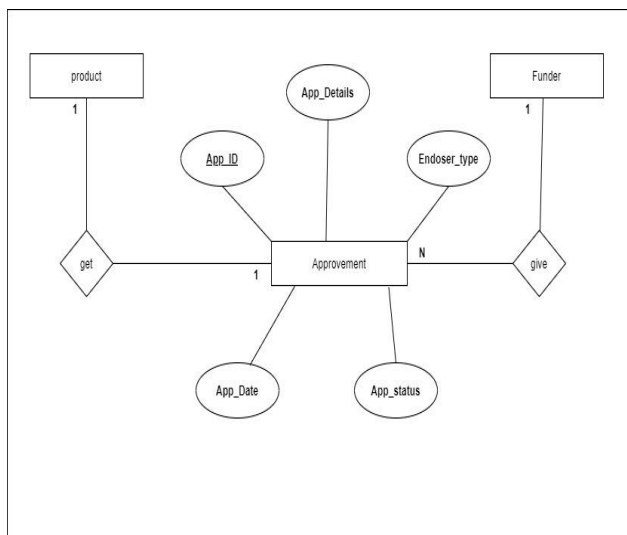
IT19117010 (Jayasundara J.M.N.K.B) –URL:

<http://localhost:8090/GadgetBadget/ApprovalService/Approvements>

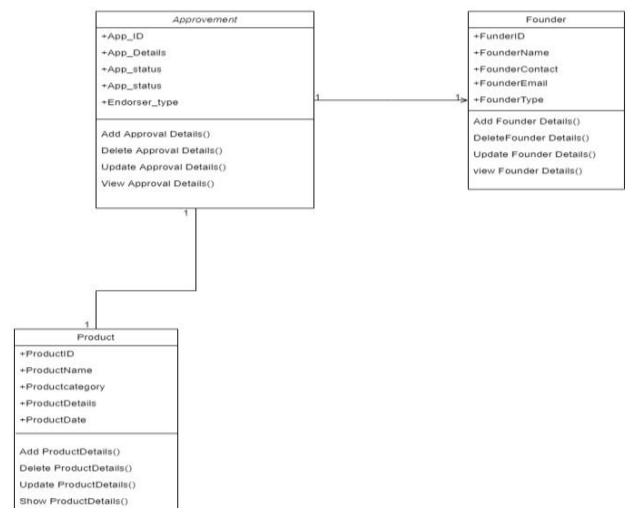
Approve Management

For the inventors who invent the products need the approval to publish their product in the company's online platform. In this approval management system the company has the full access to insert, update, delete and view the approval details.

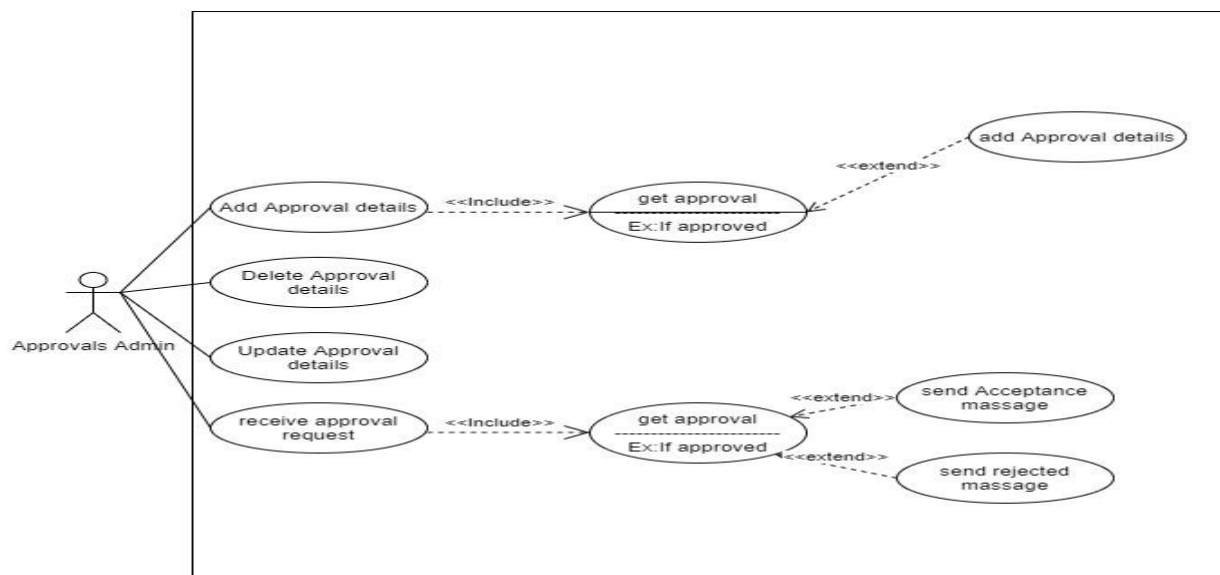
Er Diagram



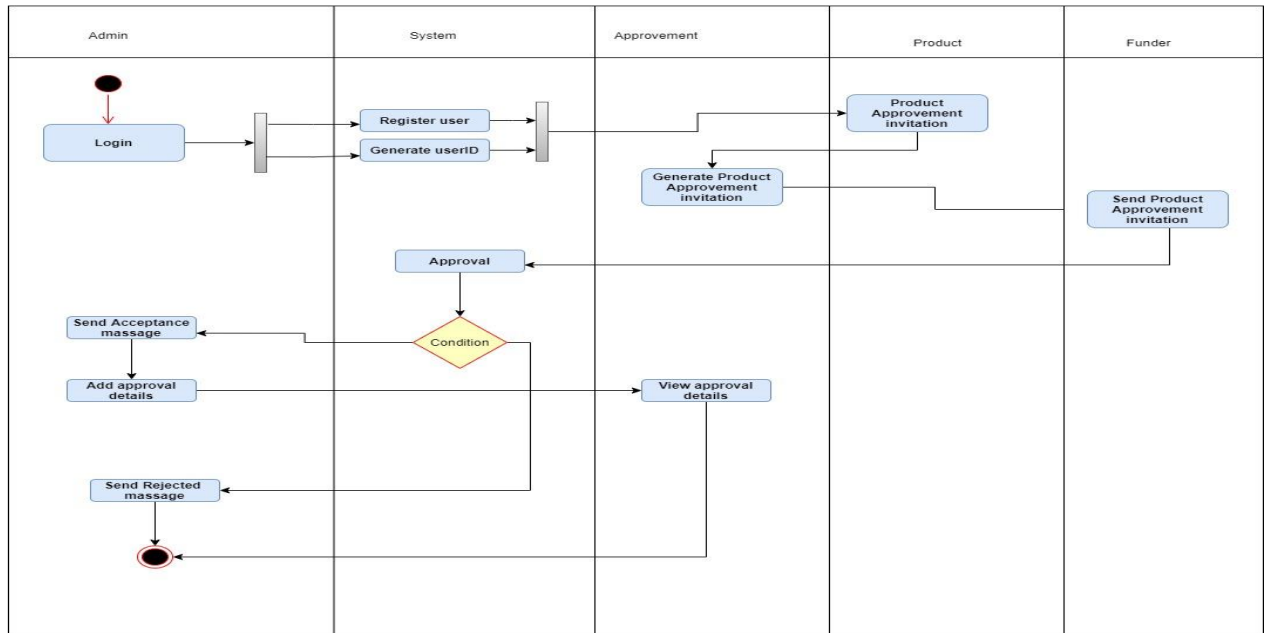
Class Diagram



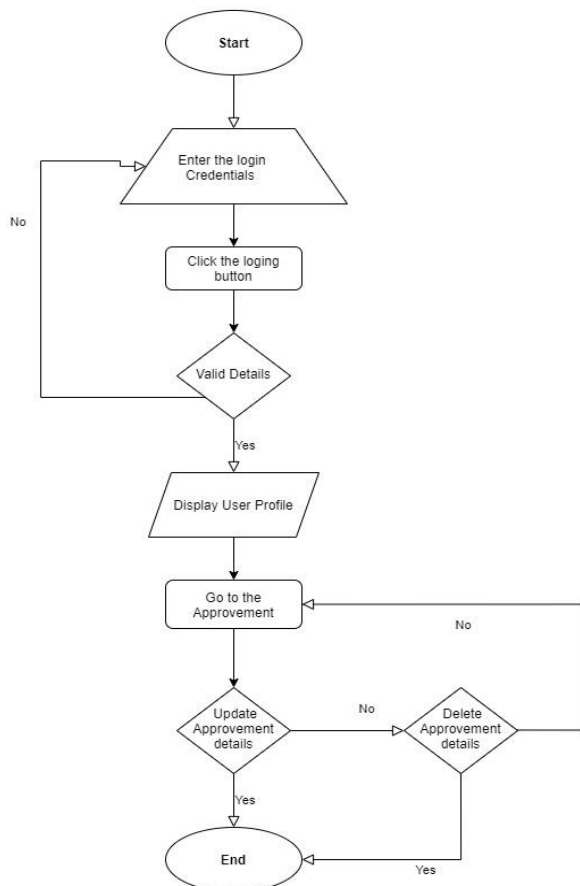
Usecase Diagram



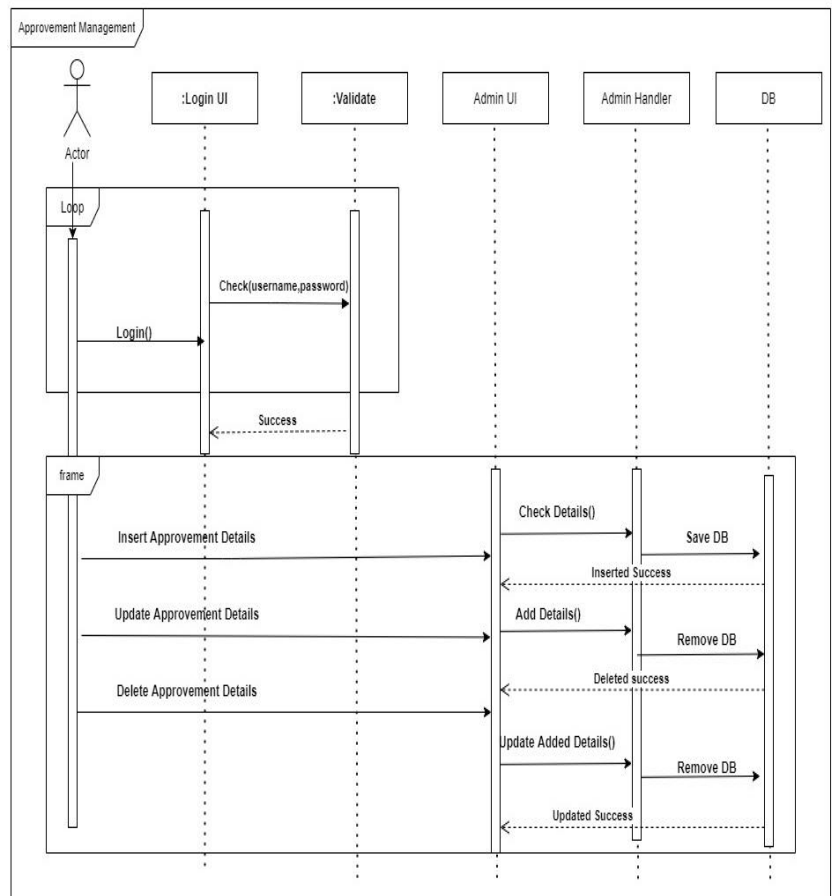
Activity Diagram



Flow chart

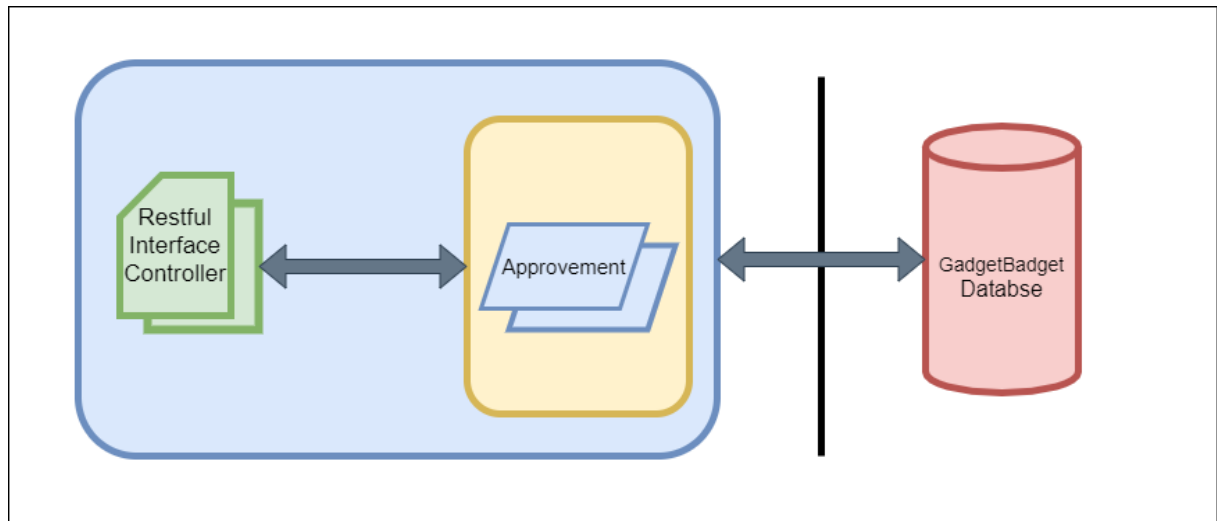


Sequence Diagram



Internal workflow

Approvement :



API Design Relational

In approvement management system the company can give the approvement to the product which are added by the inventors. The approvement management part is simple and less complicated.

- In approvement management the approvement details can be added, updated, viewed and deleted.

Service Development

- Technologies Used: Java - JAX-RS (Jersey) on Tomcat
- IDE : Eclipse
- Database : MySQL
- Testing : POSTMAN

API for get all the Approvement details in the database (GET Request)

URL: -

<http://localhost:8090/GadgetBadget/ApprovementService/Approvements>

Request : - {}

Response : - {ApproveID : "Auto generated integer value"}
{ApproveStatus =:"Approved"}
{ApproveDate = : "12.09.2018" }
{ApproveDetaills =: "071444464"}
{Endorser: "Kaush"}

API for insert a new Approvement details to the database (POST Request)

`URL: -

<http://localhost:8090/GadgetBadget/ApprovementService/Approvements>

Request :- ApproveID : "Auto generated integer value"
 {ApproveStatus =:"Approved"}
 {ApproveDate : 12.09.2018 }
 {ApproveDetaills : 071444464"}
 {Endorser: "Kaush"}
Response :- { Result = "Inserted successfully" }
 { ApproveID = "Auto generated integer value"
 { Error= "Error while inserting" }

API for update Approvement which is existing in database (PUT Request)

`URL: -

<http://localhost:8090/GadgetBadget/ApprovementService/Approvements>

Request :- ApproveID : "Auto generated integer value"
 {ApproveStatus =:"Disapproved"}
 {ApproveDate : "12.09.2018" }
 {ApproveDetaills : 0718994464"}
 {Endorser: "KaushJaysundara"}
Response :- { Result = "Updated successfully" }
 { ApproveID = "Auto generated integer value" }
 { Error= "Error while Updating" }

API for delete a Approvement which is existing in database (DELETE Request)

URL: -

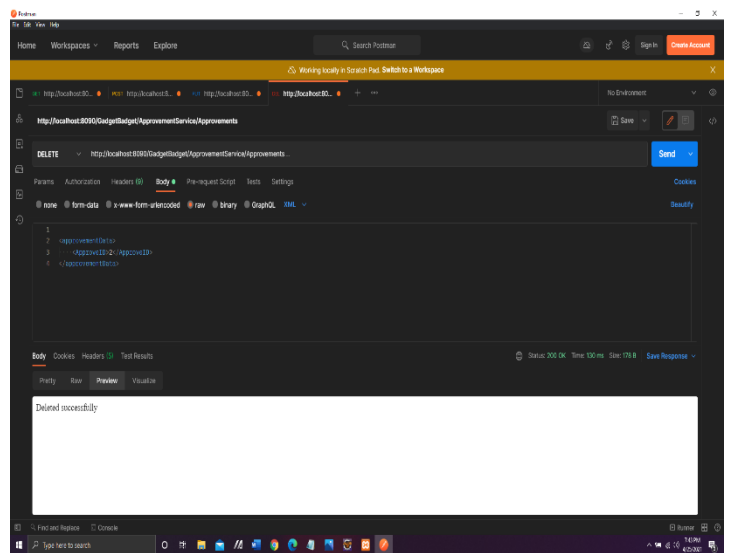
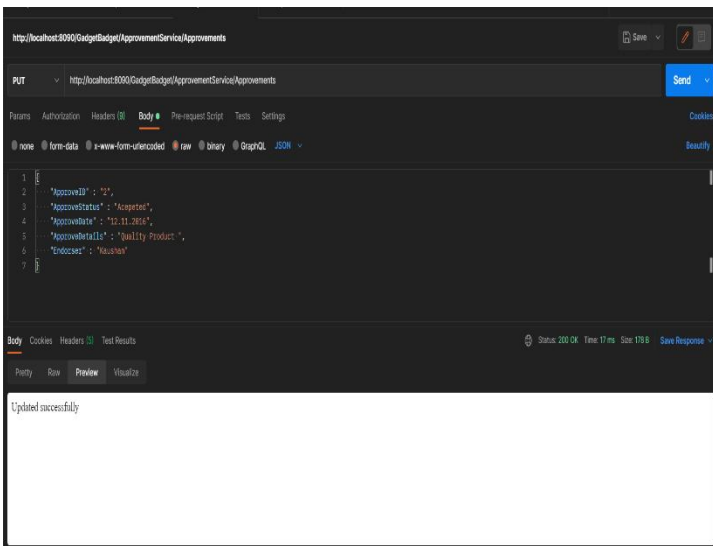
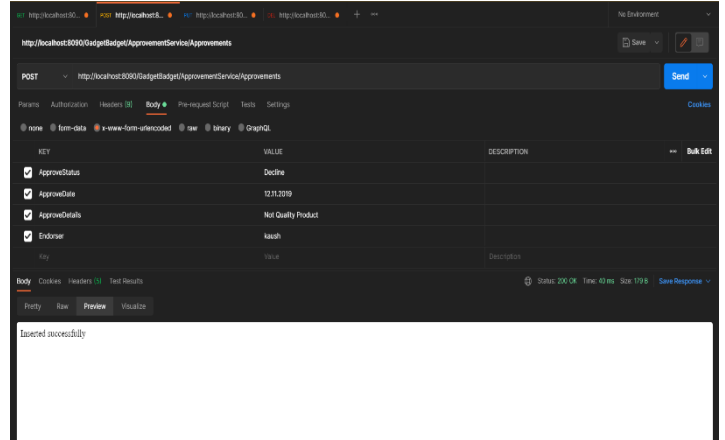
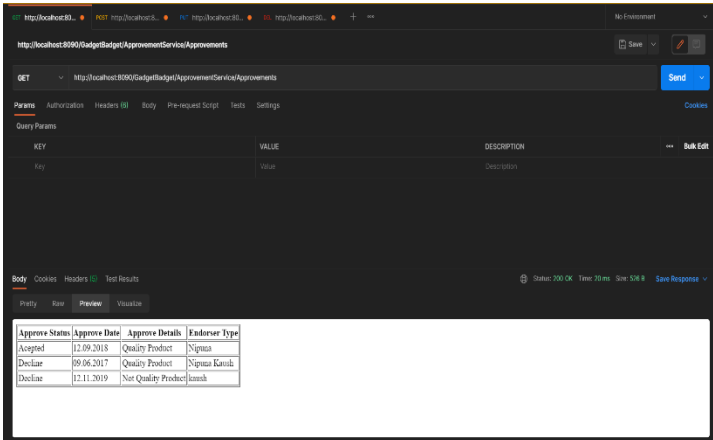
<http://localhost:8090/GadgetBadget/ApprovementService/Approvements>

Request :- { ApproveID = " Selected ApproveID from the service " }
Response :- { Result = "Deleted successfully" }
 {Error = "Error while deleting the Approvement details" }

Test Cases

TestID	Test Description/ Test Steps	Test Input(s)	Expected Output(s)	Actual Output(s)	Result (Pass/Fail)
1	Add Approvemnt Details	{ApproveStatus =:"Approved"} {ApproveDate = : "12.09.2018" } {ApproveDetaills =: "071444464"} {Endorser: "Kaush"}	New Approvemnt details are added to the database. Show message as "Inserted successfully".	New Approvemnt details are added to the database. Show message as "Inserted successfully".	PASS
2	Update Approvemnt Details	{ "ApproveID" : "2", "ApprovementStatus": "Disapproved", " ApproveDate " : "12.06.2014 ", "ApproveDetails" : "Not Quality Product", " Endorser " : "Kaush Jayasundara" }	Approvemnt details are updated according to relevant input Approvemnt details. Show message as "Updated successfully".	Approvemnt details are updated according to relevant input Approvemnt details. Show message as "Updated successfully".	PASS
3	Delete Approvemnt Details	<approvementData> <ApprovemntID>2</ApprovementID> </ approvementData >	Show message as "Deleted Successfully"	Approvemnt Details are deleted successfully. Show message as "Deleted Successfully"	PASS

Testing



.Tools Used

- Java-JAX-RS (Jersey): Used for backend development
- Eclipse: Use as IDE for developing this project
- MVC Architecture: used to easily code our project
- Apache Tomcat V.09: Used as the server
- My SQL Used as our database

References:

<https://www.youtube.com/watch?v=pCK6prSq8aw>

<https://www.youtube.com/watch?v=zid-MVo7M-E>

<https://courseweb.sliit.lk/course/view.php?id=4668>

Appendix:

Use case and sequence diagrams have been added in earlier slides, each and every individual user have separately added their appendix in their respected part.