



Sri Lanka Institute of Information Technology

B.Sc. Honors Degree in Information Technology

Specialized in Software Engineering

Final Examination
Year 3, Semester 1 (2021)

SE3040 – Application Frameworks

Final Paper Report

Student ID number: IT19028156

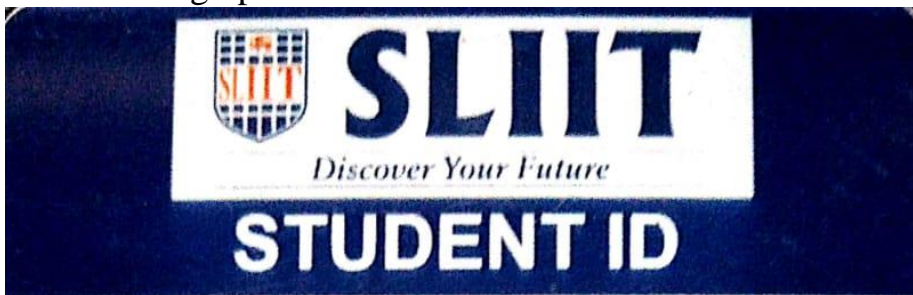
Name: Kuruppuarachchi K.A.D.K.S

For Evaluations:

Marks Allocation	Marks
Implementation of User Interfaces - 24 marks	
Implementation of service endpoints. - 30 marks	
Implementation of the calculation service. - 24 marks	
Suitable technology selection (Student will be eligible for this mark if only he/she select the correct technologies for the different parts of the application). - 10 marks	
At least one-unit test for either part of the application (UI / services). - 5 marks	
Styling of the UI. - 2 marks.	
Coding standards and quality- 5 marks	

Comments:

Photograph of the Student ID



Kuruppuarachchi K.A.D.K.S.

Reg. No: IT 19 0281 56

NIC No: 996382176V

Date of Issue: 03-01-2019

C.D. Karunaratne

Director / Administration



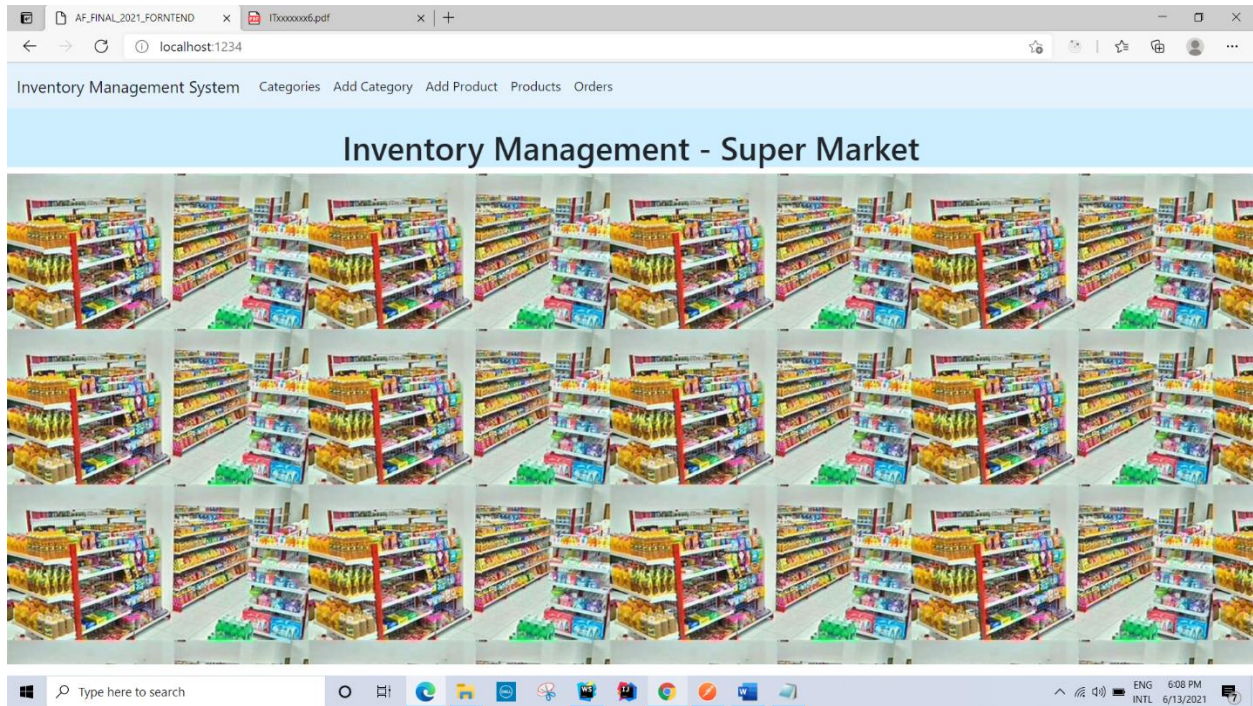
2019

if found please return to SLIIT, New Kandy Road, Malabe.

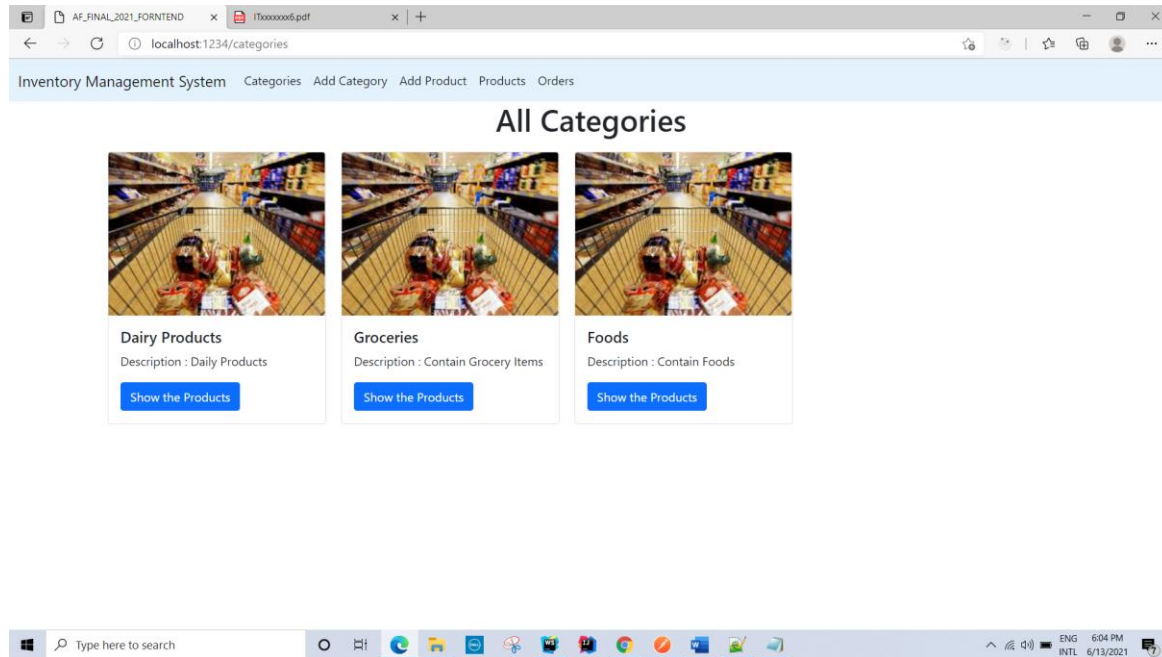
Screenshots of all user interfaces of the frontend application

<<< Insert all screenshots here... >>>

- Welcome Page



- Display All Categories UI



- When click on Show Products Button Shows all Products pf the category

AF_FINAL_2021_FORNTEND x ITxxxxxx6.pdf x | +

localhost:1234/productForCategory/60c5fa7010875d1da42fd379

Inventory Management System Categories Add Category Add Product Products Orders

Products for Category Groceries

Code	Name	Amount	Size
C004	Printing Papers	500	5
C005	Pens	1000	10

Type here to search

ENG 6:05 PM 6/13/2021

- Add Category

AF_FINAL_2021_FORNTEND x ITxxxxxx6.pdf x | +

localhost:1234/add-category

Inventory Management System Categories Add Category Add Product Products Orders

Add Category

Category Name

Description

Select Products

Select...

Submit

Type here to search

ENG 6:05 PM 6/13/2021

- **Add Product**

The screenshot shows a web browser window with the address bar displaying 'localhost:1234/add-product'. The browser has two tabs: 'AF_FINAL_2021_FORINTEND' and 'f5xxxxxx6.pdf'. The page title is 'Inventory Management System' and the navigation menu includes 'Categories', 'Add Category', 'Add Product', 'Products', and 'Orders'. The main heading is 'Add Product'. The form contains the following fields: 'Code' (empty), 'Name' (empty), 'Amount' (0), 'Size' (0), 'Price' (0), and 'Select Categories' (a dropdown menu with 'Select...' and a downward arrow). A blue 'Submit' button is located below the form. A Postman application window is visible in the background, showing a REST client interface. The Windows taskbar at the bottom includes a search bar, task view, and several application icons. The system tray shows the date and time as '6:05 PM 6/13/2021'.

- **View All Products**

All Products

Code	Name	Amount	Size	Price	DELETE
C004	Printing Papers	500	5	120	Delete
C005	Pens	1000	10	10	Delete
C007	Rice	1	2	100	Delete
C008	Bananana	10	11	120	Delete

- Delete Product

The screenshot displays a web application titled "Inventory Management System" with a navigation bar containing "Categories", "Add Category", "Add Product", "Products", and "Orders". The main content area is titled "All Products" and features a table with the following data:

Code	Name	Amount	Size	Price	DELETE
C004	Printing Papers	500	5	120	<button>Delete</button>
C005	Pens				<button>Delete</button>
C007	Rice				<button>Delete</button>
C008	Bananana				<button>Delete</button>

A confirmation dialog box is overlaid on the table, asking "Are you sure?" with the warning "You won't be able to revert this!". It includes two buttons: "Yes, delete it!" (blue) and "Cancel" (red).

The bottom of the image shows a Windows taskbar with a search bar and various application icons. The system tray indicates the language is "ENG INTL" and the date/time is "6:05 PM 6/13/2021".

- Order

The screenshot shows a web browser window with two tabs: 'AF_FINAL_2021_FORNTEND' and 'ITxxxxxx6.pdf'. The address bar shows 'localhost:1234/orders'. The page has a navigation bar with 'Inventory Management System' and links to 'Categories', 'Add Category', 'Add Product', 'Products', and 'Orders'. The main content area is titled 'Order Products Here..'. It contains a form with the following elements:

- A label 'Select Products for Order' above a dropdown menu with 'Select...' as the current selection.
- A label 'Enter the Distance in Kilo Meters from Colombo for Delivery' above a text input field containing the number '0'.
- A blue 'Order' button.

The Windows taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right indicates the language is 'ENG', the time is '6:05 PM', and the date is '6/13/2021'.

This screenshot shows the same 'Order' page as the previous one, but with additional data entered and a confirmation dialog box displayed. In the form:

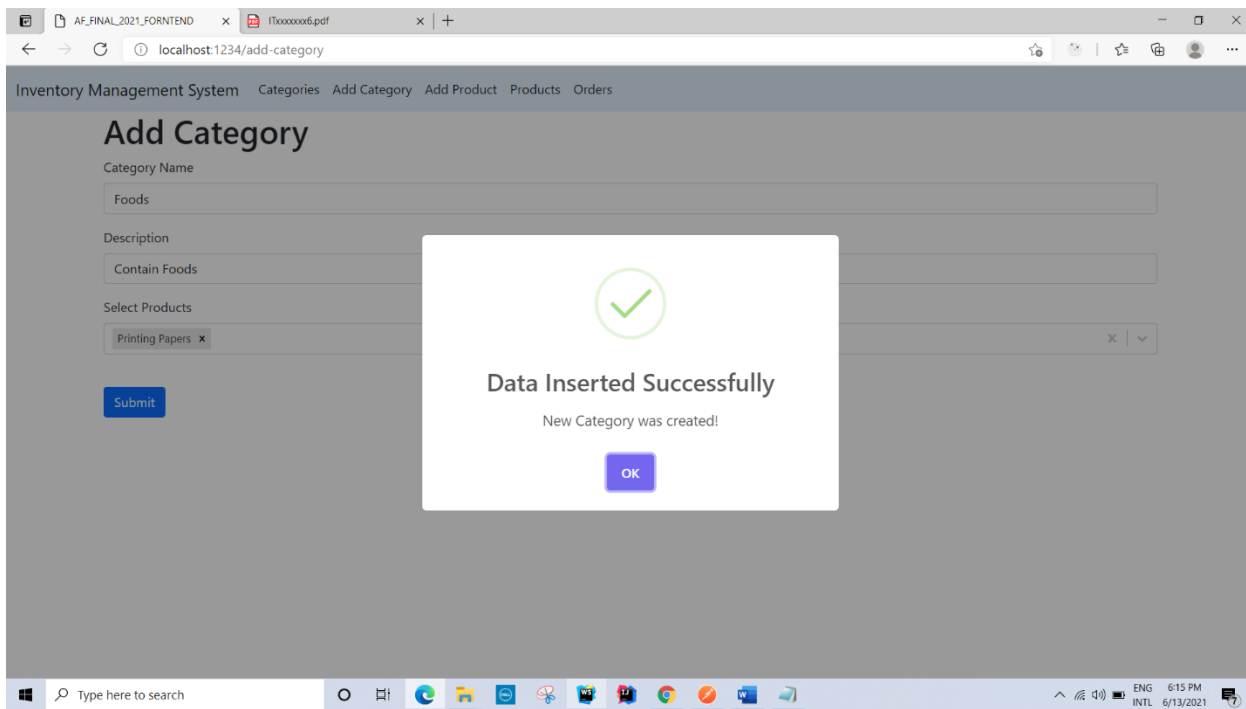
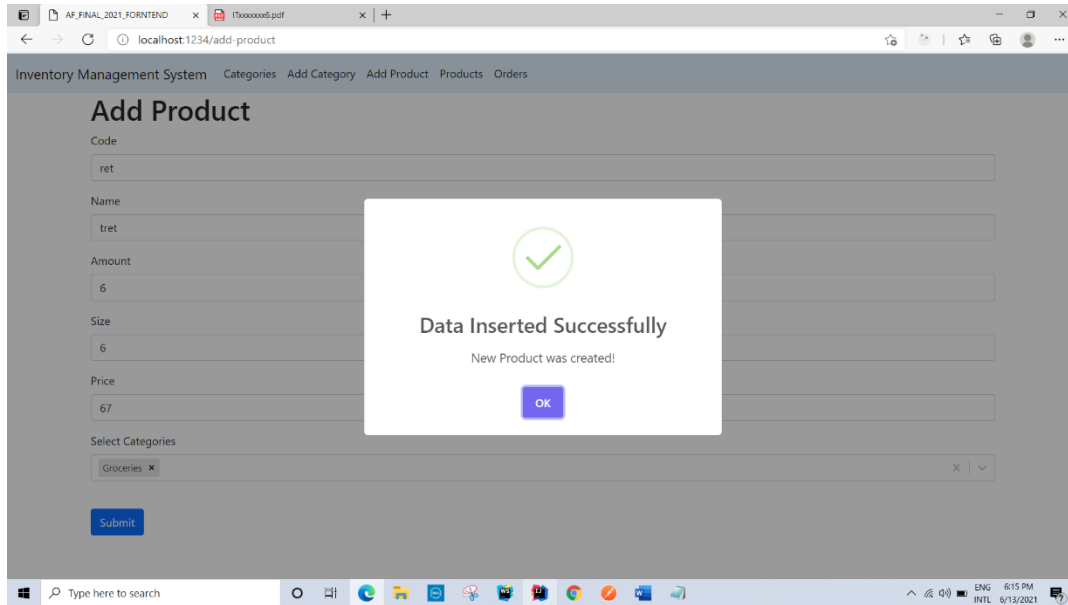
- The dropdown menu now shows 'Pens x' and 'Printing Papers x' as selected items.
- The distance input field now contains the number '12'.

A white modal dialog box is centered on the screen with the following text:

Your Order Charge is : Rs.2130/=
For Order Price : 130/= , For Delivery Charge: 2000/=

An 'OK' button is at the bottom of the dialog box. The Windows taskbar and system tray are identical to the previous screenshot, with the system tray now showing '6 hr 20 min (97%) remaining'.

- When add new products and categories successful messages are displaying



Screenshots of all MongoDB collections

- Categories

cloud.mongodb.com/v2/60c4e318d4611c2bcacc6e1a#metrics/replicaSet/60c4e448f6403464128470b9/explorer/it19028156_db/categories/find

Sandeep's Org - 20... Access Manager Billing All Clusters Get Help Sandeep

AF_PAPER_EXAM_2021 Atlas Realm Charts

Overview Real Time Metrics Collections Search Profiler Performance Advisor Online Archive Command Line Tools

DATA LAKES

SECURITY

Database Access

Network Access

Advanced

DATABASES: 2 COLLECTIONS: 3

+ Create Database

NAMESPACES

it19028156_db

categories

products

it19028156_db_test

it19028156_db.categories

COLLECTION SIZE: 477B TOTAL DOCUMENTS: 4 INDEXES TOTAL SIZE: 36KB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes

INSERT DOCUMENT

FILTER: {"filter": "example"} Find Reset

QUERY RESULTS 1-3 OF 3

```
{
  "_id": ObjectId("60c5e60099550500a997a1"),
  "products": Array
    > name: "Dairy Products"
    > description: "Dairy Products"
    > __v: 0
}

{
  "_id": ObjectId("60c5fa7010075d1da42fd379"),
  "products": Array
    > name: "Groceries"
    > description: "Contain Grocery Items"
    > __v: 0
}
```

Feature Requests

Type here to search

ENG INTL 6:06 PM 6/13/2021

- Products

cloud.mongodb.com/v2/60c4e318d4611c2bcacc6e1a#metrics/replicaSet/60c4e48f6403464128470b9/explorer/it19028156_db/products/find

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Overview Real Time Metrics Collections Search Profiler Performance Advisor Online Archive Command Line Tools

DATA LAKE

SECURITY

Database Access

Network Access

Advanced

DATABASES: 2 COLLECTIONS: 3

+ Create Database

NAMESPACES

it19028156_db

categories

products

it19028156_db_test

it19028156_db.products

COLLECTION SIZE: 115B TOTAL DOCUMENTS: 1 INDEXES TOTAL SIZE: 20KB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes

INSERT DOCUMENT

FILTER {"filter": "example"} Find Reset

QUERY RESULTS 1-3 OF 3

```
{
  "_id": ObjectId("60c5e3d609955d0e0a997a0"),
  "categories": Array,
  "code": "C000",
  "name": "Printing Papers",
  "amount": 500,
  "size": 5,
  "price": "120",
  "__v": 0
}
```

```
{
  "_id": ObjectId("60c5e20d72005e4511842"),
  "categories": Array,
  "code": "C005",
  "name": "Pens",
  "amount": 1000
}
```

Feature Requests

Type here to search

ENG INTL 6:06 PM 6/13/2021

- Test DB

cloud.mongodb.com/v2/60c4e318d4611c2bcacc6e1a#metrics/replicaSet/60c4e48f6403464128470b9/explorer/it19028156_db_test/categories/find

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AF_PAPER_EXAM_2021 Atlas Realm Charts

Overview Real Time Metrics Collections Search Profiler Performance Advisor Online Archive Command Line Tools

DATA LAKE

SECURITY

Database Access

Network Access

Advanced

DATABASES: 2 COLLECTIONS: 3

+ Create Database

NAMESPACES

it19028156_db

it19028156_db_test

categories

it19028156_db_test.categories

COLLECTION SIZE: 102B TOTAL DOCUMENTS: 1 INDEXES TOTAL SIZE: 20KB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes

INSERT DOCUMENT

FILTER {"filter": "example"} Find Reset

QUERY RESULTS 1-1 OF 1

```
{
  "_id": ObjectId("60c5e1085540129840b893d"),
  "products": Array,
  "name": "Groceries",
  "description": "Contain Groceries",
  "__v": 0
}
```

System Status: All Good

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Feature Requests

Type here to search

ENG INTL 6:07 PM 6/13/2021