

Object Orientated Programming

Mid Term Project Detailed Requirements

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| Registration Number | 2020-CS-144 |
| Student Name | Faraz Ahmad |
| Project Name | Procurement Management System |
| Project Description | Almost in every office and workplace, workers need different equipment to carry out their tasks. Whether it is a bank, a department in the university, or an office of a multinational company, there is a storage room for accessories (printing papers, paper clips, stapler, laptop, computer peripherals, etc. ) from which workers can borrow stuff for the office use and return. The company must keep a record where they can see how much equipment was bought, how much more items are needed to fulfill the demand, and the cost of the purchased items from the market as there is of course no unlimited supply of items.  So, the company hires a person who maintains this record. To make this data handling easier software is developed which mimics the register so the company can easily see the record.  An employee approaches the person in charge who wants to borrow some stuff for his office use. His details will be entered, and he can take the requested item. If it is a consumable item, there won’t be any check that it will be returned. But if it is a non-consumable item, there will be mentioned that it is with employee X and will be returned to the inventory.  Every employee will have their record with the in charge.  No one can issue an item without the approval of the person in charge.  A receipt will be generated for each issuance in the name of the beneficiary. |
| Actors of the System | * Procurement Manager * Employee |

**Use Case # 1**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Add Employee | | |
| Primary Actor | Procurement Manager | | |
| List of Fields on screen | Field Name | Component | Validation |
| Name of Employee | Textbox | Text only(alphabets) |
| Email | Text Area | Email |
| Cell Number | Text box | Numeric(11 digits ) |
| How to Access the use case | Top Menu > Manage Employee > Add Employee | | |
| On Success Return to Screen | List of Employees | | |
| Screen Design |  | | |

**Use Case # 2**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Delete Employee | | |
| Primary Actor | Procurement Manager | | |
| List of Fields on screen | Full Name | Component | Validation |
| Name of Employee | Textbox | Text only(alphabets) |
| How to Access the use case | Top Menu > Manage Employee > Delete Employee | | |
| On Success Return to Screen | List of Employees | | |
| Screen Design |  | | |

**Use Case # 3**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Update Employee | | |
| Primary Actor | Procurement Manager | | |
| List of Fields on screen | Field Name | Component | Validation |
| Name of Employee | Textbox | Text only(alphabets) |
| Email | Text Area | Email |
| Cell Number | Text box | Numeric(11 digits ) |
| How to Access the use case | Top Menu > Manage Employee > Update Employee | | |
| On Success Return to Screen | List of Employees | | |
| Screen Design |  | | |

**Use Case # 4**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Add Item | | |
| Primary Actor | Procurement Manager | | |
| List of Fields on screen | Field Name | Component | Validation |
| Name of Item | Textbox | Text only(alphabets) |
| Quantity | Spinner | Numeric |
| Price | Text box | Numeric |
| Category | Radio button | None |
| Type | Radio Button | None |
| How to Access the use case | Top Menu > Manage Inventory > Add Item | | |
| On Success Return to Screen | List of Items | | |
| Screen Design |  | | |

**Use Case # 5**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Update Item | | |
| Primary Actor | Procurement Manager | | |
| List of Fields on screen | Field Name | Component | Validation |
| Name of Item | Textbox | Text only(alphabets) |
| Quantity | Spinner | Numeric |
| Price | Text box | Numeric |
| Category | Combo box | None |
| Type | Radio Button | None |
| How to Access the use case | Top Menu > Manage Inventory > Update Item | | |
| On Success Return to Screen | List of Items | | |
| Screen Design |  | | |

**Use Case # 6**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Delete Item | | |
| Primary Actor | Procurement Manager | | |
| List of Fields on screen | Field Name | Component | Validation |
| Name of Item | Textbox | Text only(alphabets) |
| How to Access the use case | Top Menu > Manage Inventory > Delete Item | | |
| On Success Return to Screen | List of Items | | |
| Screen Design |  | | |

**Use Case # 7**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Issue Item | | |
| Primary Actor | Employee | | |
| List of Fields on screen | Field Name | Component | Validation |
| Category | Combo box |  |
| Select Item | Combo box |  |
| Quantity | Spinner | Numeric |
| How to Access the use case | Top Menu > Request Item | | |
| On Success Return to Screen | Receipt | | |
| Screen Design |  | | |

**Use Case # 8**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | View History | | |
| Primary Actor | Employee | | |
| List of Fields on screen | Field Name | Component | Validation |
| Employee Cell# | Textbox | Numeric |
| How to Access the use case | Top Menu > View History | | |
| On Success Return to Screen | Top Menu | | |
| Screen Design |  | | |

**Use Case # 9**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | View Requests | | |
| Primary Actor | Procurement Manager | | |
| List of Fields on screen | Field Name | Component | Validation |
| Name of Employee | Textbox |  |
| Item Name | Textbox |  |
| Quantity | Text |  |
| Generate receipt or delete request | Buttons |  |
| How to Access the use case | Top Menu > View Requests | | |
| On Success Return to Screen | Top Menu | | |
| Screen Design |  | | |

**Use Case # 10**

**Format of Data in Files**

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| --- | --- |
| **File Name** | Employee.txt or .dat for security |
| **Type** | Text File |
| **Data format** | NAME,EMAIL,CELL |

|  |  |
| --- | --- |
| **File Name** | Record.csv |
| **Type** | MS Excel File |
| **Data format** | Data of all employees in table format |