**<<CompSys>>**

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# **Introduction**

# **Functional Components**

## Hierarchy chart

# **User Requirements**

### The system performs staff administration

#### CompSys will allow the details of each new staff to be recorded.

#### CompSys will allow a staff details to be amended.

#### CompSys will allow staff to be de-registered.

#### CompSys will generate a staff listing.

### The system performs member administration

#### CompSys will allow the details of each new member to be recorded.

#### CompSys will allow a member details to be amended.

#### CompSys will allow de-registration of a member.

#### CompSys will allow querying a member.

#### CompSys will generate a member listing.

### The system performs repair management

#### CompSys will allow the details of each new repair to be recorded.

#### CompSys will generate a new repair estimate.

#### CompSys will allow the system to validate a new repair.

#### CompSys will issue invoices for each new repair.

#### CompSys will process ever repair being collected.

#### CompSys will generate repair report for each repair.

### The system performs administration

#### CompSys will generate a list of jobs and their status.

#### CompSys will issue invoice for any repair at any given period.

#### CompSys will generate income analysis to require specification.

# **System Requirements**

## **System Level Use Case Diagram**

## **Manage Staff**

A few words about this module/component

### New Staff

#### UC Diagram to allow the details of each new staff to be recorded.

Staff

Manager

<<includes>>

<<extends>>

#### UC Narrative to allow the details of each new staff to be recorded.

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** | **New Staff** | | **Author: Nazmul** |
| **Use Case Id** | 2.1.1.1 | | **Date: 14/10/2014** |
| **Priority** | Medium | | |
| **Source** | Staff | | |
| **Primary Business Actor** | Manager | | |
| **Other Participating Actors** | Staff | | |
| **Description** | Shop manager wishes to register a new staff in the system. This requires the system to register a new staff member into the database. The system would require to generate a unique staff ID along with other useful details such as name, address, contacts etc. | | |
| **Preconditions** | New staff should be registered before they can be assigned with new repairs or other repair shop tasks. | | |
| **Trigger** | The system will check to see if the staff is already registered. Otherwise, new staff registration form opens up. | | |
| **Typical Scenario** | **Actor Action** | **System Response** | |
|  | **Step 1:**  **Step 4:** | **Step 2:**  **Step 3:**  etc | |
| **Alternate Scenarios** | **Actor Action** | **System Response** | |
|  |  |  | |
|  |  | | |
| **Conclusions** | New staff is created. | | |
| **Post conditions** |  | | |
| **Business Rules** |  | | |
| **Implementation Constraints** |  | | |

### Amend Staff

(2.1.1.2.) CompSys will allow a staff details to be amended.

Manager

Staff

<<includes>>

<<extends>>

<<includes>>

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** | **Amend Staff** | | **Author: Nazmul** |
| **Use Case Id** | 2.1.1.2 | | **Date: 14/10/2014** |
| **Priority** | Medium | | |
| **Source** |  | | |
| **Primary Business Actor** | Staff | | |
| **Other Participating Actors** | Manager | | |
| **Description** |  | | |
| **Preconditions** | New staff should be registered before | | |
| **Trigger** | New staff system | | |
| **Typical Scenario** | **Actor Action** | **System Response** | |
|  | **Step 1:**  **Step 4:** | **Step 2:**  **Step 3:**  etc | |
| **Alternate Scenarios** | **Actor Action** | **System Response** | |
|  |  |  | |
|  |  | | |
| **Conclusions** | New staff is created. | | |
| **Post conditions** |  | | |
| **Business Rules** |  | | |
| **Implementation Constraints** |  | | |

### De-Register Staff

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** | **New Staff** | | **Author: Nazmul** |
| **Use Case Id** | 2.1.1.1 | | **Date: 14/10/2014** |
| **Priority** | Medium | | |
| **Source** |  | | |
| **Primary Business Actor** | Staff | | |
| **Other Participating Actors** | Manager | | |
| **Description** |  | | |
| **Preconditions** | New staff should be registered before | | |
| **Trigger** | New staff system | | |
| **Typical Scenario** | **Actor Action** | **System Response** | |
|  | **Step 1:**  **Step 4:** | **Step 2:**  **Step 3:**  etc | |
| **Alternate Scenarios** | **Actor Action** | **System Response** | |
|  |  |  | |
|  |  | | |
| **Conclusions** | New staff is created. | | |
| **Post conditions** |  | | |
| **Business Rules** |  | | |
| **Implementation Constraints** |  | | |

### List Staff

#### UC Diagram to generate a staff listing.

Staff

Manager

#### UC Narrative to generate a staff listing.

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** | **New Staff** | | **Author: Nazmul** |
| **Use Case Id** | 2.1.1.1 | | **Date: 14/10/2014** |
| **Priority** | Medium | | |
| **Source** |  | | |
| **Primary Business Actor** | Staff | | |
| **Other Participating Actors** | Manager | | |
| **Description** |  | | |
| **Preconditions** | New staff should be registered before | | |
| **Trigger** | New staff system | | |
| **Typical Scenario** | **Actor Action** | **System Response** | |
|  | **Step 1:**  **Step 4:** | **Step 2:**  **Step 3:**  etc | |
| **Alternate Scenarios** | **Actor Action** | **System Response** | |
|  |  |  | |
|  |  | | |
| **Conclusions** | New staff is created. | | |
| **Post conditions** |  | | |
| **Business Rules** |  | | |
| **Implementation Constraints** |  | | |

## **Manage Members**

## **Manage Repair**

## **System Administration**

(2.1.1.1.) CompSys will allow the details of each new staff to be recorded.

(2.1.1.3.) CompSys will allow a staff to be registered.

<<includes>>

<<extends>>

<<includes>>

Staff

Manager

(2.1.2.1.) CompSys will allow the details of each new member to be recorded.

Staff

Manager

<<includes>>

<<extends>>

(2.1.2.2.) CompSys will allow a member details to be amended.

Manager

Staff

<<includes>>

<<extends>>

(2.1.2.3.) CompSys will allow de-registration of a member.

Manager

Staff

<<includes>>

<<includes>>

<<extends>>

(2.1.2.4.) CompSys will allow querying a member.

<<extends>>

Staff

<<includes>>

Manager

(2.1.2.5.) CompSys will generate a member listing.

Staff

Manager

(2.1.3.1.) CompSys will allow the details of each new repair to be recorded.

Staff

<<includes>>

<<extends>>

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** | **New Staff** | | **Author: Nazmul** |
| **Use Case Id** | 2.1.1.1 | | **Date: 14/10/2014** |
| **Priority** | Medium | | |
| **Source** |  | | |
| **Primary Business Actor** | Staff | | |
| **Other Participating Actors** | Manager | | |
| **Description** |  | | |
| **Preconditions** | New staff should be registered before | | |
| **Trigger** | New staff system | | |
| **Typical Scenario** | **Actor Action** | **System Response** | |
|  | **Step 1:**  **Step 4:** | **Step 2:**  **Step 3:**  etc | |
| **Alternate Scenarios** | **Actor Action** | **System Response** | |
|  |  |  | |
|  |  | | |
| **Conclusions** | New staff is created. | | |
| **Post conditions** |  | | |
| **Business Rules** |  | | |
| **Implementation Constraints** |  | | |

# **System Model**

# **Data Model**

# **Database Schema**

# **Program Specifications**

# **Conclusion**

# **References:**