**<<CompSys>>**

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Table of Contents

1. Introduction 3

2. Functional Components 4

Hierarchy chart 4

3. User Requirements 5

2.1.1. The system performs staff administration 5

2.1.2. The system performs member administration 5

2.1.3. The system performs repair management 6

2.1.4. The system performs administration 6

4. System Requirements 7

**4.1.** **System Level Use Case Diagram** 7

**4.2.** **Manage Staff** 8

4.2.1. New Staff 9

4.2.2. Amend Staff 11

4.2.3. De-Register Staff 13

4.2.4. List Staff 15

**4.3.** **Manage Members** 17

**4.4.** **Manage Repair** 18

**4.5.** **System Adminstration** 19

5. System Model 25

6. Data Model 26

7. Database Schema 27

8. Program Specifications 28

9. Conclusion 29

10. References: 30

# **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**

Manager

Staff

**Computer Repair System**

## **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** | High | | |
| **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** |  | | |
| **Trigger** | Manager needs to register a new staff member | | |
| **Typical Scenario** | **Actor Action** | **System Response** | |
|  | **Step 1: The manager chooses add new staff.**  **Step 3: The manager enters the required information:**   * **Surname** * **Forename** * **Street** * **Town** * **County** * **Phone** * **Email**   **Step 4: The manager confirms that the staff is to be registered** | **Step 2: The system displays create staff form.**  **Step 4:The system validates the data entered:**   * **All fields are required**   **Step 5: The system assigns the Staff\_ID**  **Step 6: The system assigns Registration date as the current system date**  **Step 7: The system assigns the staff status a default value of ‘active’**  **Step 8: The system saves the new staff details in the Staff file.**  **Step 9: The system displays a confirmation message** | |
| **Alternate Scenarios** | **Actor Action** | **System Response** | |
| **A required field not entered** |  | **Step 4:A required field is not entered**  **Step 5: The system displays an appropriate error message** | |
|  |  | | |
| **Conclusions** | New staff is created. | | |
| **Post conditions** | New staff information is added. | | |
| **Business Rules** | Staff cannot do any repair shop work without registering on the system. | | |
| **Implementation Constraints** |  | | |

### Amend Staff

#### UC Diagram to allow staff details to be amended.

Manager

Staff

<<includes>>

<<extends>>

<<includes>>

#### UC Narrative to allow staff details to be amended.

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** | **Amend Staff** | | **Author: Nazmul** |
| **Use Case Id** | 2.1.1.2 | | **Date: 22/10/2014** |
| **Priority** | Medium | | |
| **Source** | Staff | | |
| **Primary Business Actor** | Manager | | |
| **Other Participating Actors** | Staff | | |
| **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

#### UC Diagram to allow staff to be de-registered.

<<includes>>

<<extends>>

<<includes>>

Staff

Manager

#### UC Narrative to allow staff to be de-registered.

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** | **De-Register Staff** | | **Author: Nazmul** |
| **Use Case Id** | 2.1.1.3 | | **Date: 14/10/2014** |
| **Priority** | Low | | |
| **Source** | Staff | | |
| **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** | **List Staff** | | **Author: Nazmul** |
| **Use Case Id** | 2.1.1.4 | | **Date: 14/10/2014** |
| **Priority** | Low | | |
| **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**

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:**

<http://www.academia.edu/3046773/Requirement_Analysis_Document_for_Recruitment_Management_System>