**DATABASE – PROJECT**

**Normalization Part**

**Group Members and Contributions for the Entire Project:**

1. **Talha Abdullah Punjabi (201903446) [55%]**
2. **Ibrahim demdoum (201701515) [25%]**
3. **Abd Errahmane Maham (201803234) [20%]**

**Normalization:**

|  |  |
| --- | --- |
| Relation / Form | Reason |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Position**   |  |  |  | | --- | --- | --- | | PosID | Pos\_Name | Pos\_Description |   **3NF : normalized** | All attributes single valued, column have unique names, no partial dependency, no transitive dependency |
| **Specialty**   |  |  |  | | --- | --- | --- | | Spec\_ID | Spec \_Name | Spec\_Description |   **3NF : normalized** | All attributes single valued, column have unique names, no partial dependency, no transitive dependency |
| **Topic\_Type**   |  |  |  | | --- | --- | --- | | TType\_ID | T\_Name | T\_ Description |   **3NF : normalized** | All attributes single valued, column have unique names, no partial dependency, no transitive dependency |
| **Topic**   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | T\_ID | Date\_Created | Approved | Title | Spec\_ID | TType\_ID | UserName |   **3NF : normalized** | All attributes single valued, column have unique names, no partial dependency, no transitive dependency |
| **User\_Type**   |  |  |  | | --- | --- | --- | | UserType\_ID | UserType\_Name | UserType \_ Description |   **3NF : normalized** | All attributes single valued, column have unique names, no partial dependency, no transitive dependency |
| **User**   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | UserName | Password | Gender | Date\_Created | FName | LName | UserType\_ID |   **3NF : normalized** | All attributes single valued, column have unique names, no partial dependency, no transitive dependency |
| **Doctor**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Doc\_ID | Doc\_BIOData | PosID | Spec\_ID | UserName |   **3NF : normalized** | All attributes single valued, column have unique names, no partial dependency, no transitive dependency |
| **Patient**   |  |  |  |  | | --- | --- | --- | --- | | Pat\_ID | Age | Pat\_Condition | UserName |   **3NF : normalized** | All attributes single valued, column have unique names, no partial dependency, no transitive dependency |
| **Reply**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Rep\_ID | Reply | Rep\_Date | T\_ID | UserName |   **3NF : normalized** | All attributes single valued, column have unique names, no partial dependency, no transitive dependency |
| **Patient\_Medicine**   |  |  |  |  | | --- | --- | --- | --- | | Start\_Date | End\_Date | Pat\_ID | Med\_ID |   **3NF : normalized** | All attributes single valued, column have unique names, no partial dependency, no transitive dependency |
| **Medicine**   |  |  |  |  | | --- | --- | --- | --- | | Med\_ID | Med\_Name | Med\_ Description | Med\_Price |   **3NF : normalized** | All attributes single valued, column have unique names, no partial dependency, no transitive dependency |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Rat\_ID | Rat\_Date | Rat\_Rating | Rat\_Comment | Pat\_ID | Doc\_ID |   **Rating**  **3NF : normalized** | All attributes single valued, column have unique names, no partial dependency, no transitive dependency |