**CSE 222**

**PROJECT FINAL REPORT - GROUP 1**

**Prison Management System**

**1. Group Members**

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**2. Problem Deﬁnition**

The problem is to manage a prison fast, easily and safely. In big institutions such as prisons  
most of the time the problem is weak communication and information among the  
personnel. Our aim is to solve this communication and information problem. Prisons have  
personnel such as administrator, governor, chief jailer, jailers, staff members (e.g. cook,  
cleaning, healthcare), prisoners etc.; or rooms such as cells, wards, dining hall etc.  
All this information is kept tracked by the system and only authorized personnel can use this  
system. We call them users. Users can reach any data and do actions about their authorities  
in the prison. For example; registering, head counting, shifting, adding daily food menus etc.  
As a Result by using this system, we will be able to handle weak communication and  
information problem such that users can access everything immediately.

**3. Users of the System**

The prison system has users such as administrator, governor, jailers, chief jailer and staff members(cooks , healthcare personnels and cleaning personnels).

* **Administrator** manage the system by adding and removing governor.
* **Governor** can enter and remove information about the prisoners such as name, surname, T.C number, criminal record, the number of the ward and prisoner’s relative information. Also, governor can add and remove another users.

He/She keeps the information of these users. This information is name, surname, T.C number and user’s profession.

* **Chief jailer** manages other guards. He/She assigns them to the necessary departments. Chief jailer also manages visitor entrance and exit.
* **Jailers** enter the census details of the prisoners every morning and evening. He/She can access prisoners' information.
* **Healthcare personnels** enter prisoners’ health information into the system. Arranges the appointment system for health check.
* **Cooks** organize the menu and enter the menu into the system.

**4. Requirements**

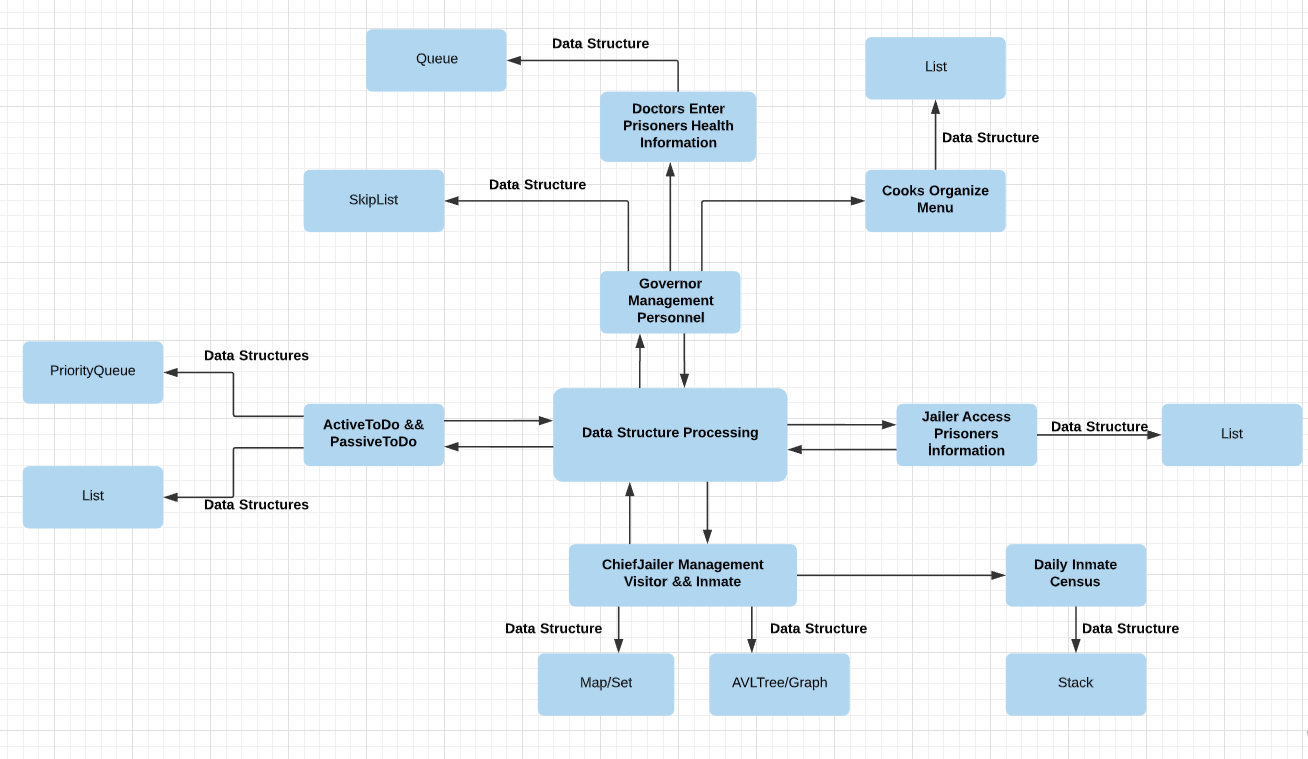
**Functional Requirements**

|  |  |
| --- | --- |
| **Requirement**  **ID** | **Description of the Requirement** |
| **FR1** | Administrator (e.g. Secretary of Justice) shall be able to add or remove  Governor. |
| **FR2** | Governor shall be able to add or remove prisoners. |
| **FR3** | Governor shall be able to add or remove personnel  (Jailers, Cooks, Health Personnel). |
| **FR4** | Chief Jailer shall be able to manage visitors. |
| **FR5** | Chief Jailer shall be able to manage jailers (Work Deportments, Shift Hours). |
| **FR6** | Jailers shall be able to update prisoner census data. |
| **FR7** | Jailers shall be able to declare state of alert. |
| **FR8** | Jailers shall be able to create Health Appointment for inmates. |
| **FR9** | Healthcare Personnel shall be able to manage and update prisoners health status. |
| **FR10** | All Users shall be able to login successfully and safely. |
| **FR11** | Cooks shall be able to organize the menu and enter the menu into the system. |

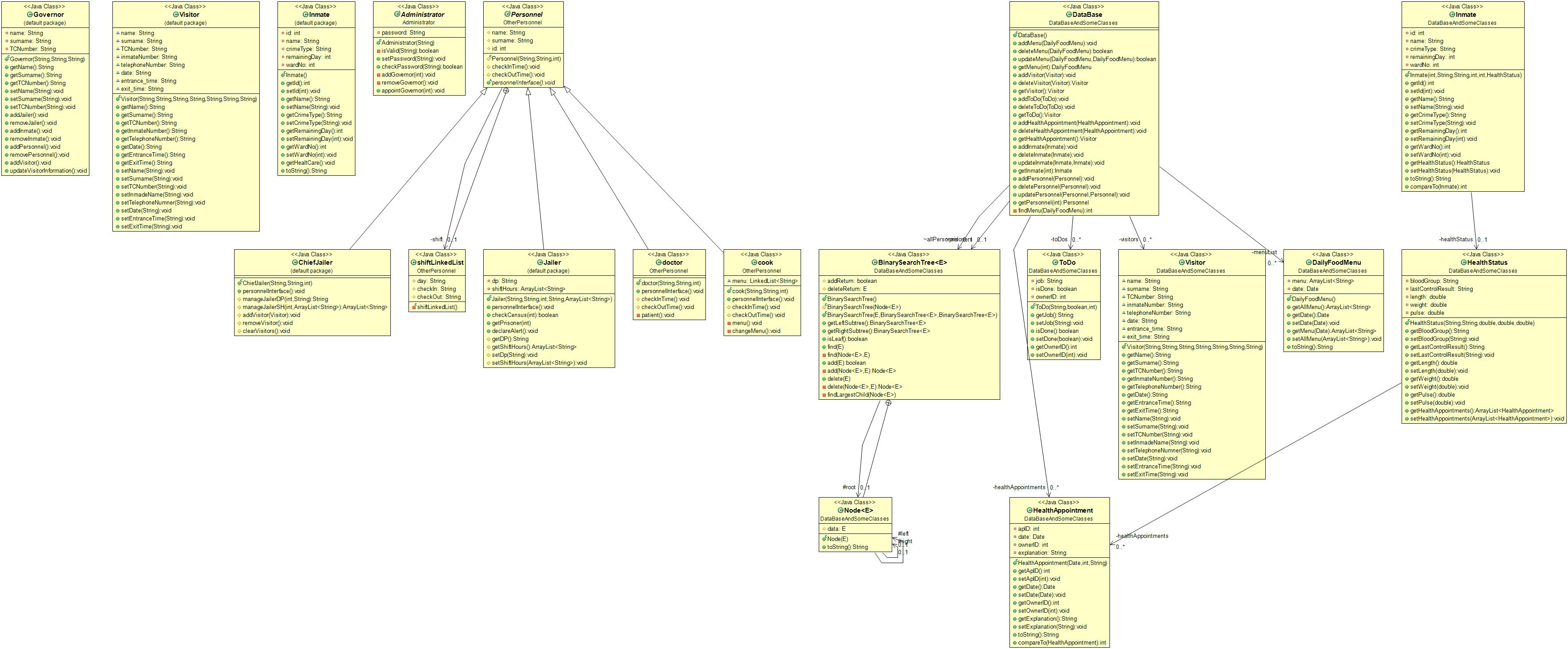
**Non-Functional Requirements**

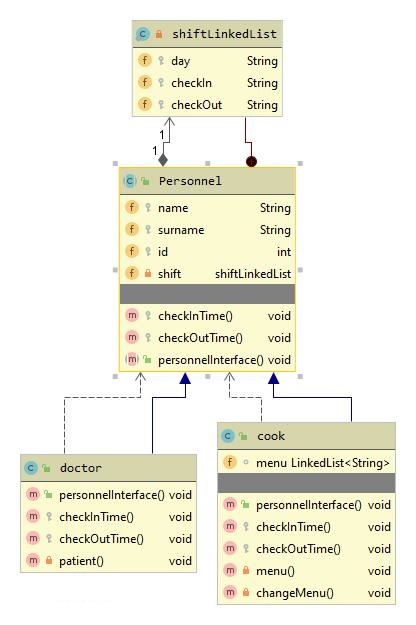
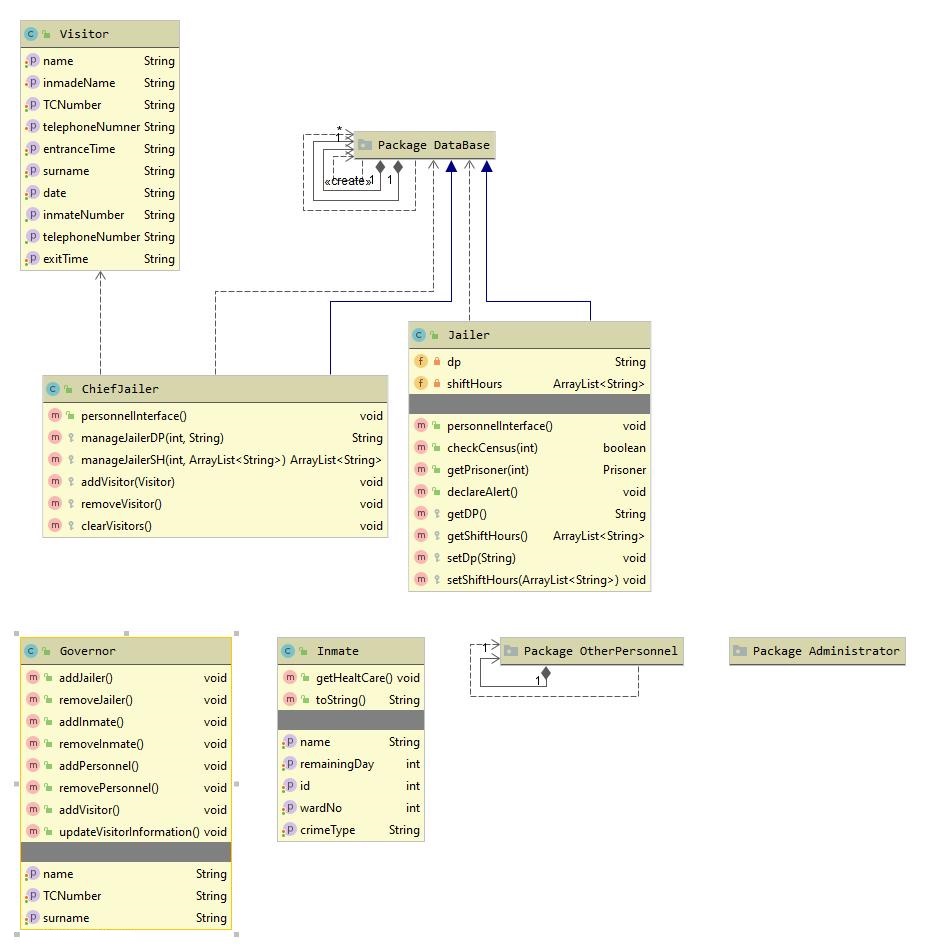
|  |  |
| --- | --- |
| **Requirement**  **ID** | **Description of the Requirement** |
| **NFR1** | Hardware should be able to run at least Java SE13. |
| **NFR2** | System can operate on any hardware. The seller is not in charge of any leaks in security if customer decides to change their hardware or their operating system. |
| **NFR3** | System should be able to provide information on user’s request in less than 1 second in optimal conditions. |
| **NFR4** | Anyone outside the prison ( such as visitor ) does not have any access to prisoners’ information. Visitors need to be conﬁrmed by prison’s prisoner’s to be able to enter the jail. |
| **NFR5** | Personnel having access to the system (especially administrators) should do the training course provided by our experienced staff. |
| **NFR6** | System should be easy to use and user experience should be simple enough so that even the elderly personnel is able to catch up fast. |
| **NFR7** | Customer buying the system is required to report the maximum capacity of the prison (maximum number of prisoners, staff, administrators of the  system etc.) |
| **NFR8** | For registering someone new into the system they are required to be in possession of an either id card, residential permit or a passport, otherwise they become a temporary prisoner until their identiﬁcation is conﬁrmed. |
| **NFR9** | Reinstalling the system should be done by professionals in case of failure |

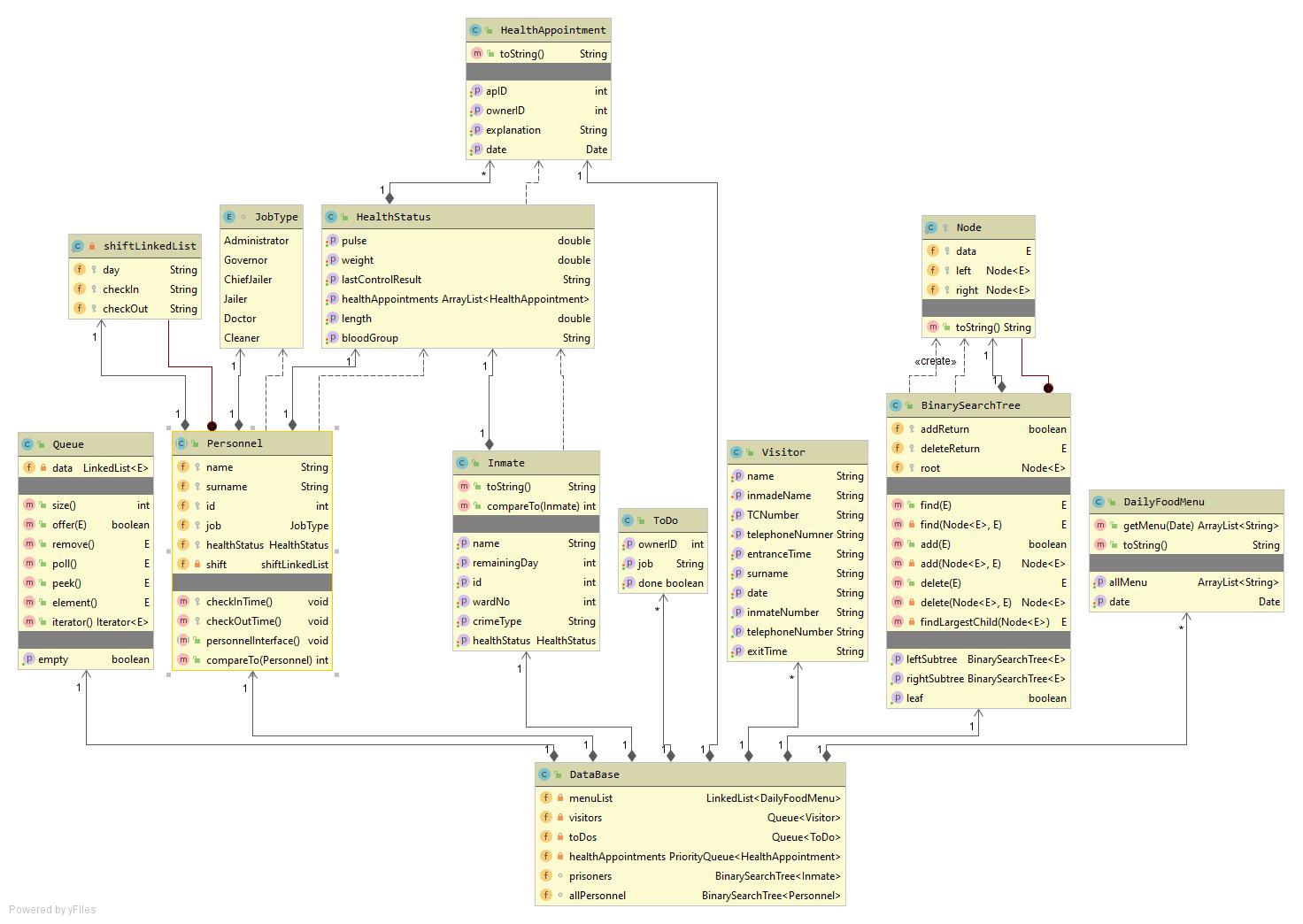
**5. Detailed System Modules**

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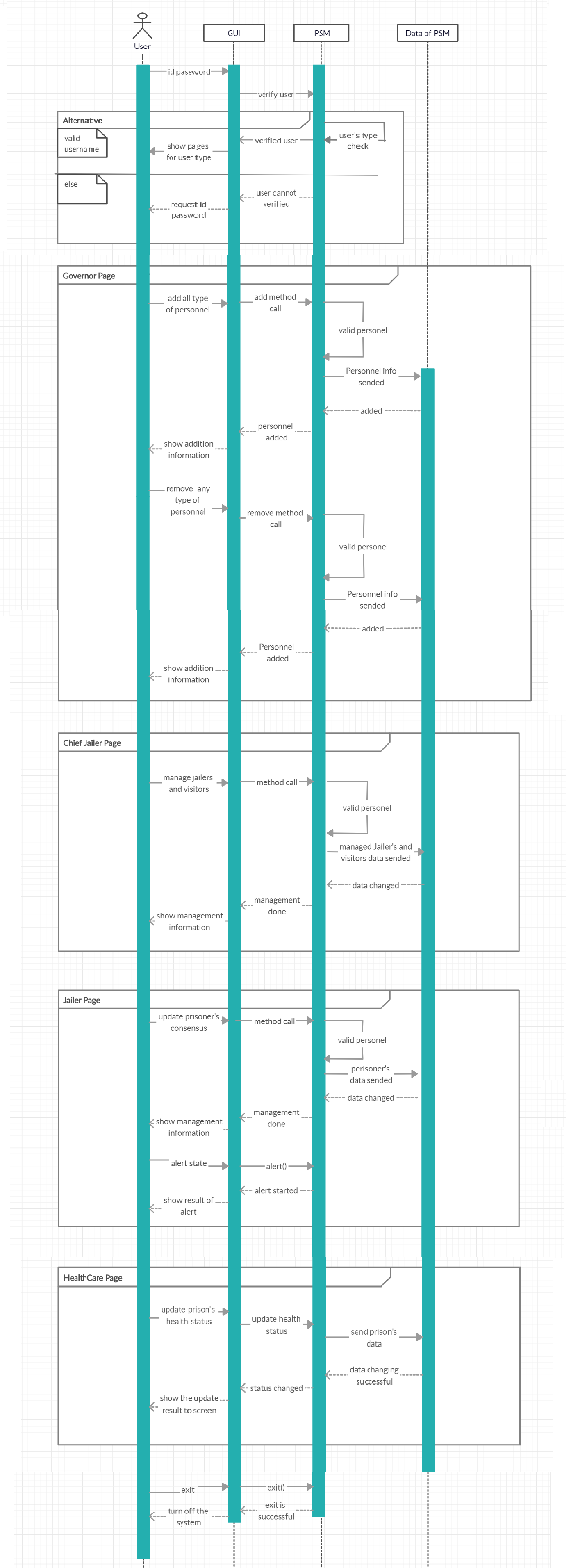
**6. Class Diagrams**

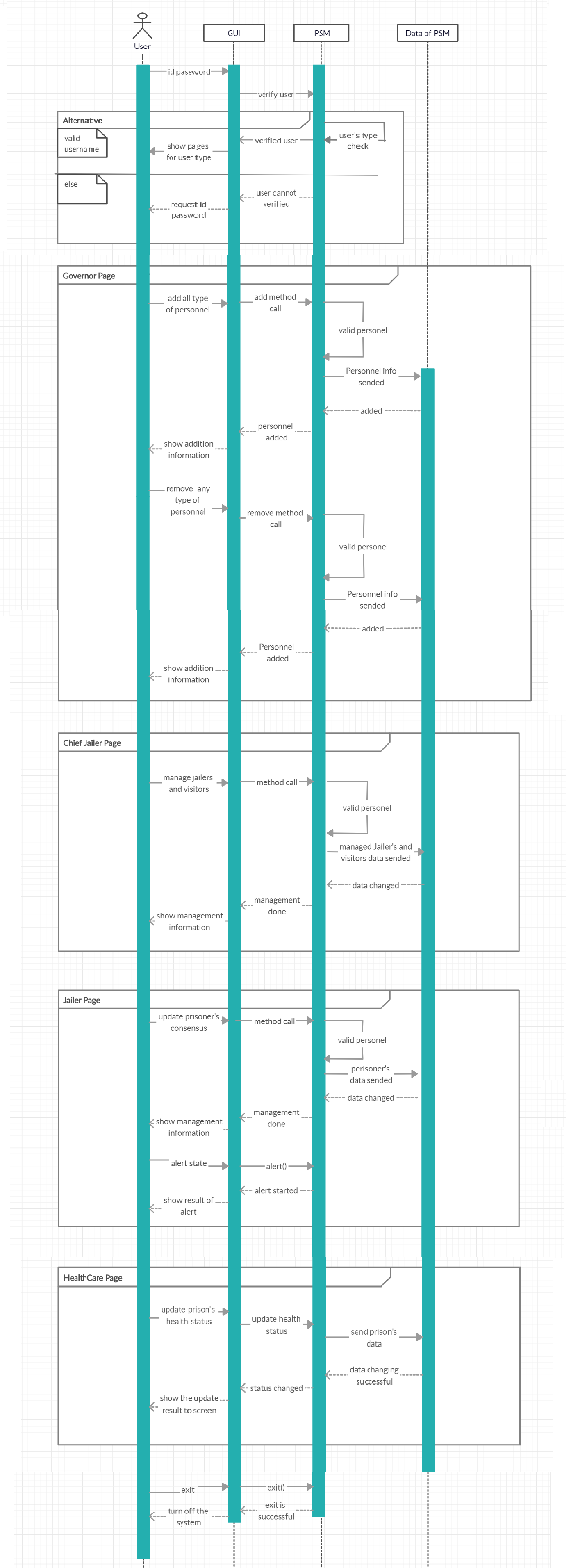
* All Classes in one Diagram
* Class Diagrams Separately

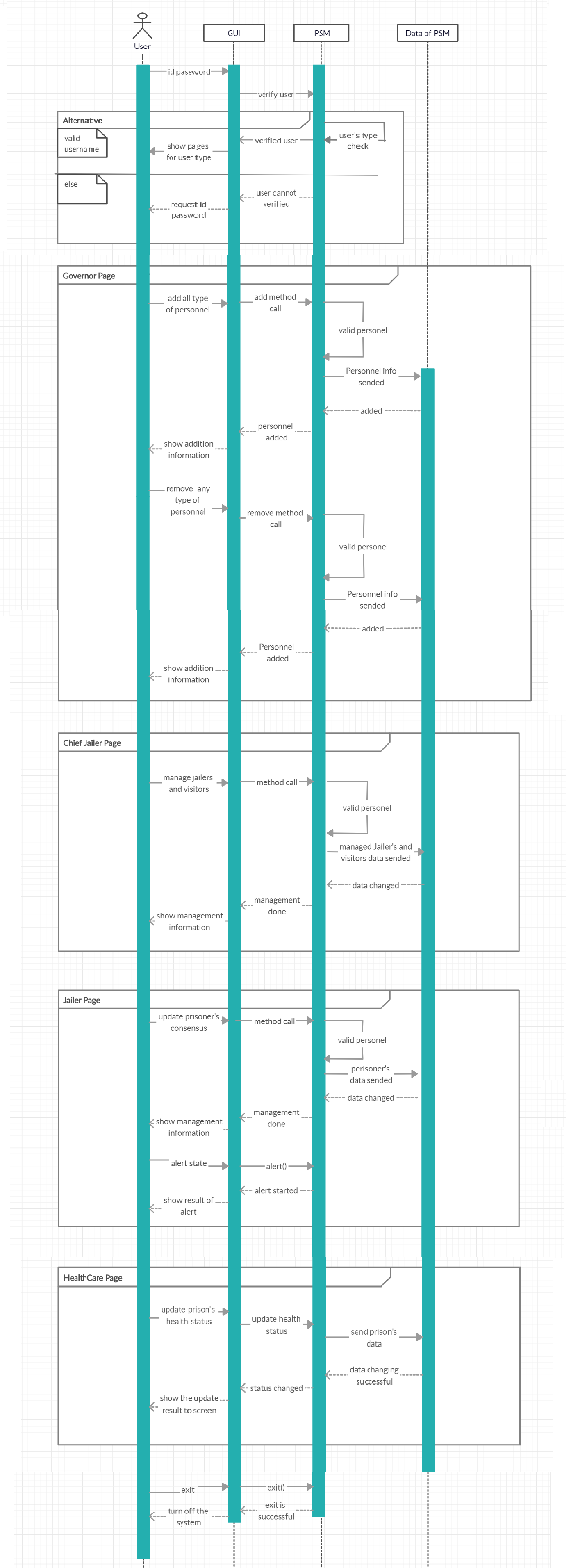
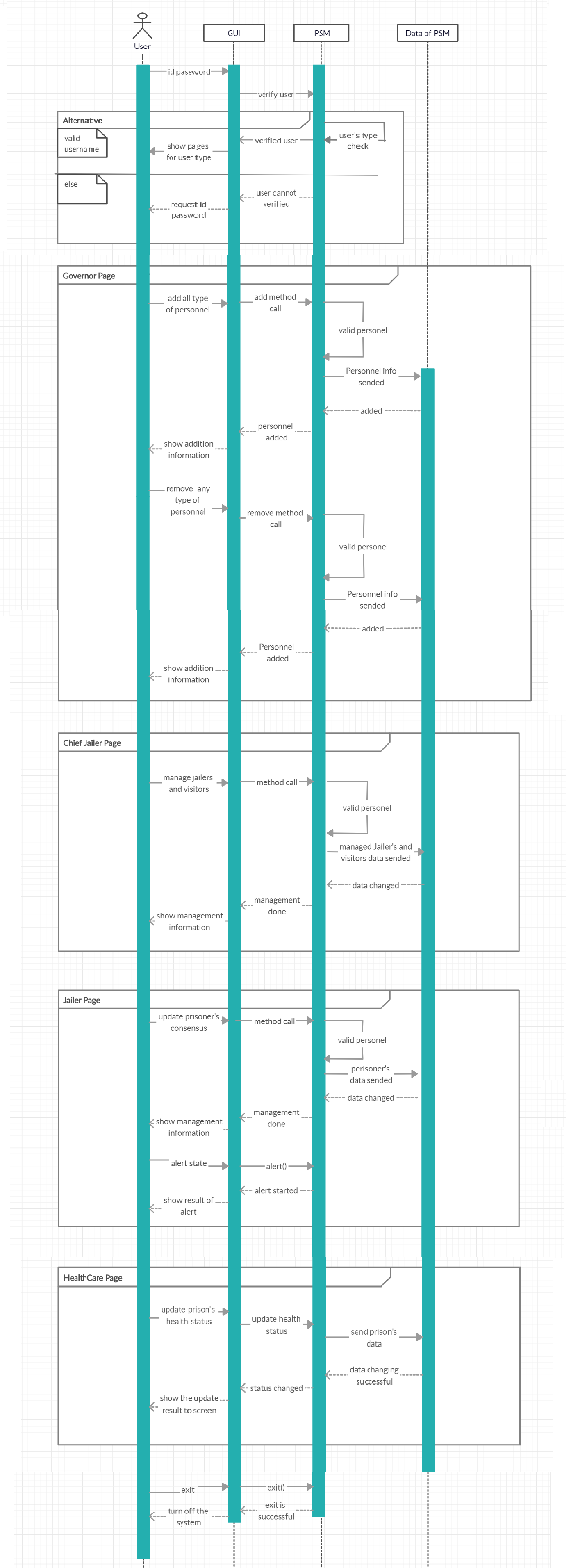


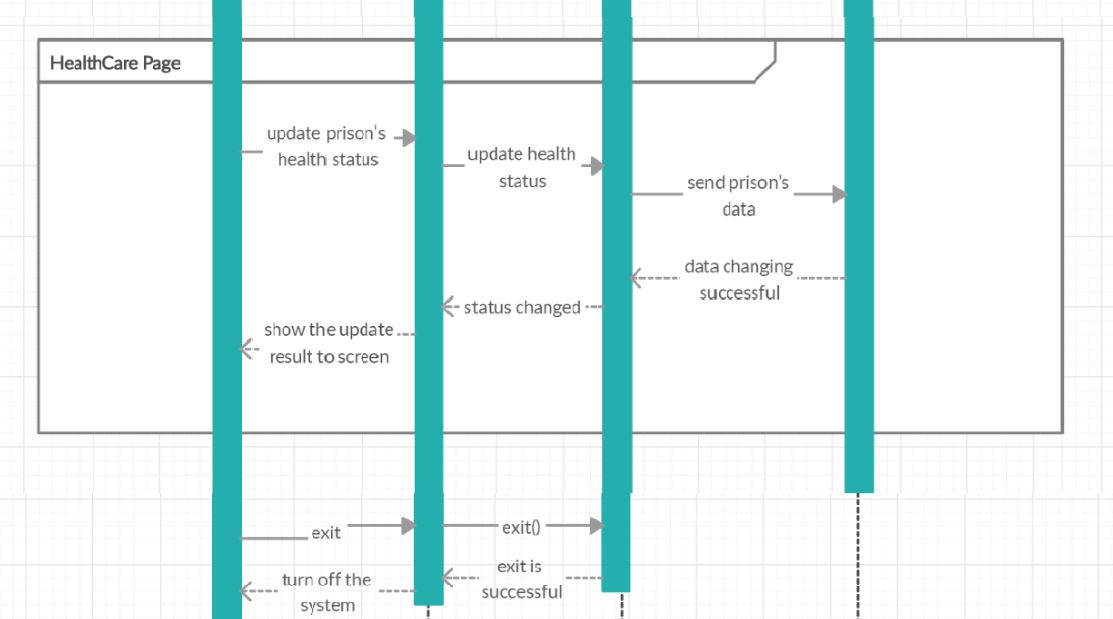


**7. Sequence Diagrams(Has Changed)**



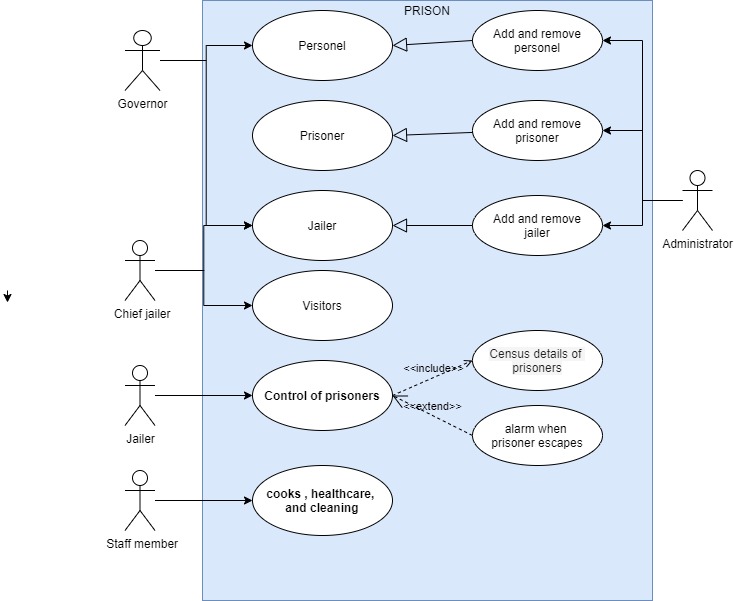




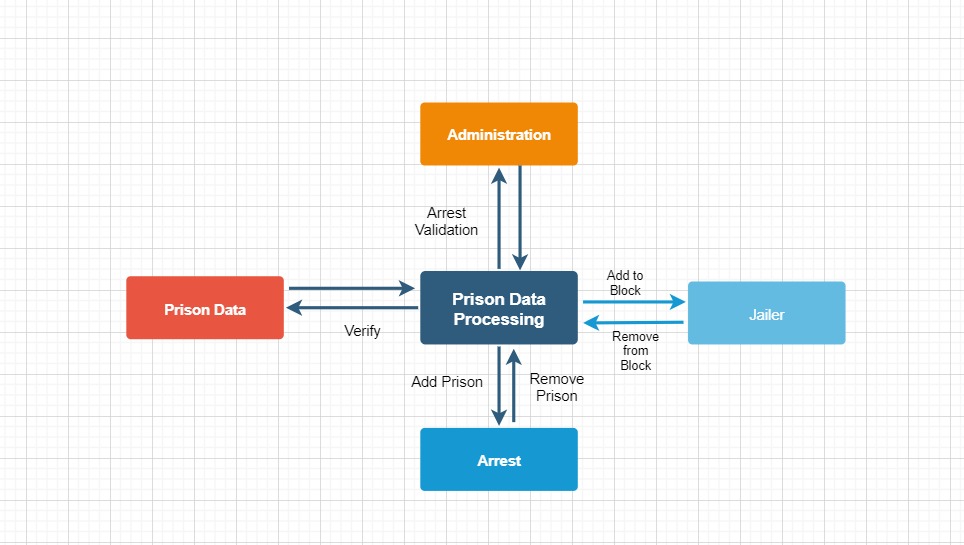


**8. Other Diagrams**

* Use Case Diagram



* Basic Module diagram

**9. Implementation Details(Has Changed)**

In this project most of the implementation part belongs to java so there is nothing from outside of java.

**Changes**

We planned to make **GUI** interface for our project but there are other homeworks, projects and exams was in last 1 month and also there is no anybody in our group who was experienced with java GUI before. So In this conditions we didn’t do GUI we made a **menu-driven** program instead.

A sample menu:

**Password Security for the System**

To store our passwords safely we used an encryption method called hashing and salting. In other word salted hash. In this method hash is ascii code of each character in the password minus(-) 19. Salt is a random string of characters that is different for every single user. We mixed hash and salt to make strong encryption. In this way even if two user has same password the encryption will be entirely different.

**How to store system Data?**

To store our entire data, we used files. After each insertion, deletion or updating the files are updated.

**SOFTWARE REQUIREMENTS**

|  |  |
| --- | --- |
| **Java SE Version** | Java 13 and above |
| **IDE** | NetBeans, Eclipse and IntelliJ IDEA |

**10. Test cases(Has Changed)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test ID | Requirement ID | Test Scenario | Test Steps | Test Data | Expected Results | Actual  Results | Pass/Fail |
| T01 | **FR9** | Check Administrator  login with valid data. | 1.Go to app.  2.Enter UserID.  3.Enter Password.  4.Click Login. | UserID = 10123  Password = password1 | User should  login into Application. | As Expected | **Pass** |
| T02 | **FR9** | Check Administrator login with invalid user ID. | 1.Go to app.  2.Enter invalid UserID.  3.Enter Password.  4.Click Login. | UserID = 101  Password = password1 | System should give an error message and should not login | As Expected | **Pass** |
| T03 | **FR9** | Check Administrator login with invalid password. | 1.Go to app.  2.Enter UserID.  3.Enter invalid Password.  4.Click Login. | UserID = 10123  Password = wpassword1 | System should give an error message and should not login | As Expected | **Pass** |
| T04 | **FR1** | Administrator adds a new Governor to the system. | 1.Go to app.  2.Go to add Governor screen.  3.Enter name.  4.Enter UserID.  5.Enter Phone.  6.Set random password. | Name = Ray Holt  UserID = 10123  Password = password1 | Administrator should add Governor to the system. | As Expected | **Pass** |
| T05 | **FR1** | Administrator adds a new Governor to the system but enters invalid user ID. | 1.Go to app.  2.Go to add Governor screen.  3.Enter name.  4.Enter invalid UserID.  5.Enter Phone.  6.Set random password. | Name = Ray Holt  UserID = 101  Password = password1 | System should give an error message that says ID should be 5 digit. | As Expected | **Pass** |
| T06 | **FR1** | Check if the Administrator removed Governor. | 1.Go to app.  2.Go to remove screen.  3.Enter UserID.  4.Click remove. | UserID= 10123 | Administrator should remove Governor from the system. | As Expected | **Pass** |
| T07 | **FR9** | Check Governor  login with valid data. | 1.Go to app.  2.Enter UserID.  3.Enter Password.  4.Click Login. | UserID = 10123  Password = password1 | User should  login into Application. | As Expected | **Pass** |
| T08 | **FR9** | Check Governor login with invalid user ID. | 1.Go to app.  2.Enter invalid UserID.  3.Enter Password.  4.Click Login. | UserID = 101  Password = password1 | System should give an error message and should not login | As Expected | **Pass** |
| T09 | **FR9** | Check Governor login with invalid password. | 1.Go to app.  2.Enter UserID.  3.Enter invalid Password.  4.Click Login. | UserID = 10123  Password = wpassword1 | System should give an error message and should not login | As Expected | **Pass** |
| T10 | **FR2** | Governor adds an Inmate to the system. | 1.Go to app.  2.Go to add Inmate screen.  3.Enter name.  4.Enter InmateID.  5.Enter crimeType  6.Enter remainingDay.  7.Enter wardNo.  8.Click add. | Name = Doug Judy  InmateID = 10009  CrimeType = Theft  RemainingDay = 378  WardNo = 4 | Governor should add Inmate to the system | As Expected | **Pass** |
| T11 | **FR2** | Governor adds an Inmate to the system but enters invalid Inmate ID. | 1.Go to app.  2.Go to add Inmate screen.  3.Enter name.  4.Enter invalid InmateID.  5.Enter crimeType  6.Enter remainingDay.  7.Enter wardNo.  8.Click add. | Name = Doug Judy  InmateID = 1000  CrimeType = Theft  RemainingDay = 378  WardNo = 4 | System should give an error message that says ID should be 5 digit. | As Expected | **Pass** |
| T12 | **FR3** | Governor adds personnel( cook ) to the system. | 1.Go to app.  2.Go to add personnel screen.  3. Enter name.  4.Enter UserID.  5.Set random password.  6.Enter Phone.  7.Enter Type.  8.Enter Shift.  9.Enter start date.  10.Click add. | Name = Love Quinn  UserID = 10345  Password = password3  Block = 3  Type = Cook  Shift = Day  Start Date = 20 March, 2020 | Governor should successfully add personnel( cook ) to the system. | As Expected | **Pass** |
| T13 | **FR3** | Governor adds personnel( health ) to the system. | 1.Go to app.  2.Go to add personnel screen.  3. Enter name.  4.Enter UserID.  5.Set random password.  6.Enter Phone.  7.Enter Type.  8.Enter Shift.  9. Enter start date.  10.Click add. | Name = Alex Karev  UserID = 10456  Password = password4  Block = 5  Type = Health  Shift = Day  Start date =  2 March, 2019 | Governor should successfully add personnel ( health ) to the system. | As Expected | **Pass** |
| T14 | **FR3** | Governor adds personnel ( Jailer ) to the system. | 1.Go to app.  2.Go to add personnel screen.  3.Enter name.  4.Enter UserID.  5.Set random password.  6. Enter Block.  7.Enter Phone.  8. Enter Type.  9. Enter Shift.  10.Enter start date.  11.Click add. | Name = Rosa Diaz  UserID = 10567  Password = password5  Block = 3  Type = Jailer  Shift = Day  Start date = 23 August, 2014 | Governor should add personnel to the system. | As Expected | **Pass** |
| T15 | **FR3** | Governor adds any personnel to the system but enters invalid user ID | 1.Go to app.  2.Go to add personnel screen.  3.Enter name.  4.Enter invalid UserID.  5.Set random password.  6. Enter Block.  7.Enter Phone.  8. Enter Type.  9. Enter Shift.  10.Enter start date.  11.Click add. | Name = Rosa Diaz  UserID = 105  Password = password5  Block = 3  Type = Jailer  Shift = Day  Start date = 23 August, 2014 | System should give an error message that says ID should be 5 digit. | As Expected | **Pass** |
| T16 | **FR9** | Check Chief Jailer  Login with valid data. | 1.Go to app.  2.Enter UserID.  3.Enter password.  4.Click Login. | UserID = 10234  Password = password2 | User should Login into application. | As Expected | **Pass** |
| T17 | **FR4** | Chief Jailer adds visitor to the system. | 1.Go to app.  2.Go to add visitors screen.  3. Enter name.  4. Enter TCNumber.  5. Enter Phone.  6. Enter inmateID.  7. Enter date.  8. Enter entrance\_time. | Name = Trudy Judy  TCNumber = 12345367490  InmateID = 10009  Date = 4 October, 2018  Entrance\_time = 14:00 | Chief Jailer should add visitor to the system. | As Expected | **Pass** |
| T18 | **FR4** | Chief Jailer updates visitor’s exit time. | 1.Go to app.  2.Go to visitors screen.  3. Enter visitor’s name.  4. Update exit\_time.  5.Click update. | Name = Trudy Judy  Exit\_time = 15:00 | Chief Jailer should update visitor’s exit time. | As Expected | **Pass** |
| T19 | **FR5** | Chief Jailer updates Jailers’ shift hours. | 1.Go to app.  2.Go to jailers screen.  3.Enter jailer’s UserID.  4.Update shift hours.  5.Click update. | UserID= 10567  Shift = Night | Chief Jailer should update jailer’s shift hours. | As Expected | **Pass** |
| T20 | **FR9** | Check Jailer Login with valid data. | 1.Login  2.Check Prison Status  0.Exit | UserID = 99999  Password = 1234akif | User should Login into application. | As Expected | **Pass** |
| T21 | **FR6** | Jailer check census before add census | 0.Main Menu  1.Check Last Census  2.Add New Census  3.Delete Last Census  4.Set Alert  5.Undo Alert  6.Get a Prisoner  7.Get Shift Our  8.Get Department  9.Add Health Appointment | Answer : 1  No Last Census | Showing census info. | As Expected | **Pass** |
| T22 | **FR7** | Jailer add new census and check last census | 0.Main Menu  1.Check Last Census  2.Add New Census  3.Delete Last Census  4.Set Alert  5.Undo Alert  6.Get a Prisoner  7.Get Shift Our  8.Get Department  9.Add Health Appointment | Answer : 2  Enter number of Inmate: 100  Census info was Added with today’s date. | Adding new census successfully. | As Expected | **Pass** |
| T23 | **FR9** | Check Health Personnel Login with valid data. | 1.Go to app.  2.Enter UserID.  3.Enter Password.  4.Click Login. | UserID = 10456  Password = password4 | User should Login into application. | As Expected | **Pass** |
| T24 | **FR2** | Check if the  Governor removed Inmate. | 1.Go to app.  2.Go to remove screen.  3.Enter InmateID.  4.Click remove. | UserID = 10009 | Governor should remove  Inmare from the system | As Expected | **Pass** |
| T25 | **FR3** | Check if the Governor removed  personnel. | 1.Go to app.  2.Go to remove screen.  3.Enter UserID.  4.Click remove. | UserID = 10567 | Governor should remove personnel from the system | As Expected | **Pass** |
| T26 | **FR9** | Doctor logs into the system | 1.Enter id  2.Enter password | ID:14100  Pw:1234akif | User should  login into Application. | As Expected | **Pass** |
| T27 | **FR9** | Get next appointment | Chooses option | Option: 1 | Should get next patient | As Expected | **Pass** |
| T28 | **FR9** | Choose option for patient’s examination and see blood type | Enter choice | Choice:1 | Should show patient’s blood group | As Expected | **Pass** |
| T29 | **FR9** | Change blood group of a patient | Select to change its blood group: 2 | Enter new blood group: “ab+” | Blood group should be changed | As Expected | **Pass** |
| T30 | **FR9** | Get newly changed blood group | Select option | Choice: 1 | New blood group should be “ab+” | As expected | **Pass** |
| T31 | **FR9** | Check last control’s results | Select option | Choice: 3 | Should get last control’s results as “good” | As expected | **Pass** |
| T32 | **FR9** | Set new control results | Select option 4 and proceed | Enter new control results: “fair” | Control results should be altered | As expected | **Pass** |
| T33 | **FR9** | Get last control’s results again | Select option | Choice: 3 | Should now be “fair” | As expected | **Pass** |
| T34 | **FR9** | Get inmate’s height | Select option | Choice: 5 | Should return inmate’s height | As expected | **Pass** |
| T35 | **FR9** | Set new height for the inmate | Select optoin | Chioce: 6  And enters: 1.81 for height | Height should be set | As expected | **Pass** |
| T36 | **FR9** | Get new height | Select option | Choice: 5 | Should return height as 1.81 | As expected | **Pass** |
| T37 | **FR9** | Get inmate’s weight | Select option | Choice:7 | Should return inmate’s weight | As expected | **Pass** |
| T38 | **FR9** | Set inmate’s weight | Select option and enter new weight | Option:8  New weight:87 | Weight should be updated | As expected | **Pass** |
| T39 | **FR9** | Get new weight | Select option | Option: 7 | Weight should be 87 | As expected | **Pass** |
| T40 | **FR9** | Get inmate’s pulse | Select option | Option: 9 | Should show its last measured pulse | As expected | **Pass** |
| T41 | **FR9** | Set inmate’s pulse | Select option  And enter new pulse | Option: 10  New pulse:120 | Pulse should be set | As expected | **Pass** |
| T42 | **FR9** | Enter invalid option | Entering some option that does not exist | Option: 12 | Should let know the doctor that the option is not valid | As expected | **Pass** |
| T43 | **FR9** | Checking food menu from the main menu | Enter option | Option: 2 | Should show that day’s menu | As expected | **Pass** |
| T44 | **FR9** | Getting a new appointment when there is no new appointments | Enter option | Option: 1 | Should let know the doctor that there are no new patients | As expected | **Pass** |
| T45 | **FR10** | Login for cook | Choose login  Enter id  Enter password | Answer: 1  Enter your ID as Number: 13100  Enter your Password: 1234akif | Cook interface | As Expected | **Pass** |
| T46 | **FR10** | List all menu | Select option | Choice: 6 | Listed all menu in system. | As expected | **Pass** |
| T47 | **FR10** | Add new daily food menu | Select option  Enter day  Enter meal name  Enter foods | Answer: 1  enter day : Tuesday  enter meal name (Breakfast, lunch or dinner : lunch  enter add food or [0] for back : yayla  enter add food or [0] for back : makarna  enter add food or [0] for back : patlican  enter add food or [0] for back : 0 | Added | As expected | **Pass** |
| T48 | **FR10** | Add new daily food menu | Select option  Enter day  Enter meal name  Enter foods | Answer: 1  enter day : Friday  enter meal name (Breakfast, lunch or dinner : dinner  enter add food or [0] for back : ezogelin  enter add food or [0] for back : mantar  enter add food or [0] for back : bulgur  enter add food or [0] for back : 0 | Added | As expected | **Pass** |
| T49 | **FR10** | Change menu | Select option  Enter day  Enter meal name  Remove meal  Enter foods  Change menu | Answer: 2  enter day wanted to change : monday  enter meal name (Breakfast, lunch or dinner : breakfast  enter add food or [0] for back : poagaca  enter add food or [0] for back : simit  enter add food or [0] for back : cay  enter add food or [0] for back : 0  Succesful! | changed | As expected | **Pass** |
| T50 | **FR10** | Delete all day | Select option  Enter day  Select option | Answer: 3  enter day : Sunday  Answer: 1 | Deleted | As expected | **Pass** |
| T51 | **FR10** | Print last menu | Select optoin | Answer: 5 | Friday - dinner  ezogelin  mantar  bulgur | As expected | **Pass** |
| T52 | **FR10** | Delete specific day and meal | Select option  Enter day  Select option  Enter meal name | Answer: 3  enter day : Monday  Answer: 2  enter meal name : lunch | Succesful! | As expected | **Pass** |
| T53 | **FR10** | Delete all week | Select option | Choice:4 | Deleted | As expected | **Pass** |
| T54 | **FR6** | Jailer delete census and check last census | 0.Main Menu  1.Check Last Census  2.Add New Census  3.Delete Last Census  4.Set Alert  5.Undo Alert  6.Get a Prisoner  7.Get Shift Our  8.Get Department  9.Add Health Appointment  10.Delete Health Appointment | Answer: 3  Answer: 1  No Last Census | Delete census and show last census successfully | As Excepted | **Pass** |
| T55 | **FR7** | Jailer check set alert && undo alert | 0.Main Menu  1.Check Last Census  2.Add New Census  3.Delete Last Census  4.Set Alert  5.Undo Alert  6.Get a Prisoner  7.Get Shift Our  8.Get Department  9.Add Health Appointment  10.Delete Health Appointment | Answer: 4  Answer : 5 | Set alert and then undo alert | As Excepted | **Pass** |
| T56 |  | Jailer get inmate info and showing info valid data | 0.Main Menu  1.Check Last Census  2.Add New Census  3.Delete Last Census  4.Set Alert  5.Undo Alert  6.Get a Prisoner  7.Get Shift Our  8.Get Department  9.Add Health Appointment  10.Delete Health Appointment | Answer: 6  Enter ID of the prison:  10000  Inmate{id=10000, name='ali kara', crimeType='FELONY', remainingDay=1662, wardNo=2} | Jailer get inmate info and showing successfully | As Excepted | **Pass** |
| T57 |  | Jailer get inmate info and showing info invalid data | 0.Main Menu  1.Check Last Census  2.Add New Census  3.Delete Last Census  4.Set Alert  5.Undo Alert  6.Get a Prisoner  7.Get Shift Our  8.Get Department  9.Add Health Appointment  10.Delete Health Appointment | Answer: 6  Enter ID of the prison:  12000  java.lang.NullPointerException | Enter invalid id, throw exception | As Excepted | **Fail** |
| T58 |  | Jailer get shift hour invalid id | 0.Main Menu  1.Check Last Census  2.Add New Census  3.Delete Last Census  4.Set Alert  5.Undo Alert  6.Get a Prisoner  7.Get Shift Our  8.Get Department  9.Add Health Appointment  10.Delete Health Appointment | Answer: 7  Enter id:  13  java.util.NoSuchElementException: No matching jailer found! | Enter invalid id, throw exception | As Excepted | **Fail** |
| T59 |  | Jailer check get shift hour valid id | 0.Main Menu  1.Check Last Census  2.Add New Census  3.Delete Last Census  4.Set Alert  5.Undo Alert  6.Get a Prisoner  7.Get Shift Our  8.Get Department  9.Add Health Appointment  10.Delete Health Appointment | Answer: 7  Enter id:  99999  Working Days:  ---------------------------------------------  Tuesday  Shift; night | Showing working days and shifting | As Excepted | **Pass** |
| T60 |  | Jailer check get department valid data | 0.Main Menu  1.Check Last Census  2.Add New Census  3.Delete Last Census  4.Set Alert  5.Undo Alert  6.Get a Prisoner  7.Get Shift Our  8.Get Department  9.Add Health Appointment  10.Delete Health Appointment | Answer: 8  Enter id:  99998  Department:  ---------------------------------------------  Work Place information:  Block= B1  Floor=0 | Entering id chief jailer and showing department and work place information successfully | As Excepted | **Pass** |
| T61 |  | Jailer check get department invalid data | 0.Main Menu  1.Check Last Census  2.Add New Census  3.Delete Last Census  4.Set Alert  5.Undo Alert  6.Get a Prisoner  7.Get Shift Our  8.Get Department  9.Add Health Appointment  10.Delete Health Appointment | Answer: 8  Enter id:  13  java.util.NoSuchElementException: No matching jailer found! | Enter invalid id, throw exception | As Excepted | **Fail** |
| T62 | **FR8** | Jailer add health appointment to inmate | 0.Main Menu  1.Check Last Census  2.Add New Census  3.Delete Last Census  4.Set Alert  5.Undo Alert  6.Get a Prisoner  7.Get Shift Our  8.Get Department  9.Add Health Appointment  10.Delete Health Appointment | Answer: 9  Enter inmate id:  20000  ---------------------------------------------  Appointment Id:  10000  ---------------------------------------------  Enter explanation:  stomache  ---------------------------------------------  \*\*\*All Health Appointments in the system\*\*\*  ------------------------------------------------------------  HealthAppointment{date=11.06.2020, ownerID=10000, explanation='flu'}  HealthAppointment{date=24.06.2020 19:02, ownerID=20000, explanation='stomache'}  ------------------------------------------------------------ | Health Appointment adding successfully | As Excepted | **Pass** |
| T63 | **FR8** | Jailer delete health appointment to inmate | 0.Main Menu  1.Check Last Census  2.Add New Census  3.Delete Last Census  4.Set Alert  5.Undo Alert  6.Get a Prisoner  7.Get Shift Our  8.Get Department  9.Add Health Appointment  10.Delete Health Appointment | Answer: 10  \*\*\*All Health Appointments in the system\*\*\*  ------------------------------------------------------------  HealthAppointment{date=24.06.2020 19:02, ownerID=20000, explanation='stomache'}  ------------------------------------------------------------ | Health Appointment removing successfully | As Excepted | **Pass** |
| T64 |  | Jailer exit to main menu | 0.Main Menu  1.Check Last Census  2.Add New Census  3.Delete Last Census  4.Set Alert  5.Undo Alert  6.Get a Prisoner  7.Get Shift Our  8.Get Department  9.Add Health Appointment  10.Delete Health Appointment | Answer: 0 | Exit, back main menu succssfully | As Excepted | **Pass** |

**RUNNING AND RESULTS**

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| Test ID | Test Result |
| T01 | **ekran görüntüsü içeren bir resim  Açıklama otomatik olarak oluşturuldu** |
| T02 | **metin, ekran görüntüsü içeren bir resim  Açıklama otomatik olarak oluşturuldu** |
| T03 | **ekran görüntüsü içeren bir resim  Açıklama otomatik olarak oluşturuldu** |
| T04 | **metin içeren bir resim  Açıklama otomatik olarak oluşturuldu** |
| T05 | **ekran görüntüsü içeren bir resim  Açıklama otomatik olarak oluşturuldu** |
| T06 | **ekran görüntüsü içeren bir resim  Açıklama otomatik olarak oluşturuldu** |
| T07 | **metin, ekran görüntüsü içeren bir resim  Açıklama otomatik olarak oluşturuldu** |
| T08 | **ekran görüntüsü içeren bir resim  Açıklama otomatik olarak oluşturuldu** |
| T09 | **ekran görüntüsü içeren bir resim  Açıklama otomatik olarak oluşturuldu** |
| T10 | **metin içeren bir resim  Açıklama otomatik olarak oluşturuldu** |
| T11 | **metin, ekran görüntüsü içeren bir resim  Açıklama otomatik olarak oluşturuldu** |
| T12 | **ekran görüntüsü içeren bir resim  Açıklama otomatik olarak oluşturuldu**  **metin içeren bir resim  Açıklama otomatik olarak oluşturuldu** |
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