**<Domain Model>**

UC – 1

1. Extracting the responsibility

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| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| Coordinate actions of all concepts associated with a use case, a logical grouping of use cases, or the entire system and delegate the work to other concepts. | D | Controller |
| Display the blanks and log in screen. | D | Viewer |
| Define functions about keyboard input. | K | CheckInput |
| Value of User keyboard input. | K | KeyboardEntry |
| Contains the user’s data. (Doctor / Patient) | K | CurrentUserData |
| Saves and data in the database. | D | SaveUserData |
| Checks whether data is in the database. | K | CheckUserData |
| Loads data from the database. | D | LoadUserData |
| Container for user’s authentication data, such as ID and passcode, etc. | K | Key |
| Verify whether the key-code entered by the user is valid. | D | KeyChecker |
| Container for the collection of valid keys associated with users. | K | KeyStorage |
| Log all interactions with the system in persistent storage. | D | Logger |
| Prepares a database and retrieves the records from the database | D | Database Connection |

2. Extracting the Associations

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| --- | --- | --- |
| Concept pair | Association description | Association name |
| Controller ↔ SaveData, CurrentData, LoadData | Collects data from the controller before uploading to the DB. | Collect data |
| SaveData ↔ Database connection | Uploads collected data to the DB. | Upload DB |
| Key ↔ KeyChecker | Checks whether the user’s information(ID, password) is valid. | Check  user’s information |

3. Extracting the Attributes

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| --- | --- | --- |
| Concept | Attributes | Attribute Description |

UC – 2

1. Extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility description | Type | Concept name |
| Coordinate actions of all concepts associated with a use case, a logical grouping of use cases, or the entire system and delegate the work to other concepts. | D | Controller |
| Define functions about keyboard input. | K | CheckInput |
| Value of User keyboard input. | K | KeyboardEntry |
| Finds the proper result to the user from the DB. | D | FindDiseaseData |
| Prepare a database query that best matches the actor’s search criteria and retrieve the records from the database. | D | Database Connection |
| Shows the result page to the user. | D | Viewer |
| Sends Home Page. | D | SendHome |
| Define functions about Click input. | K | CheckInput |
| Value of User Click input. | K | ScoreEntry |
| Saves and uploads the score to the system database. | D | SaveScore |
| Contains the data about the disease. | K | DiseaseData |

2. Extracting the Associations

|  |  |  |
| --- | --- | --- |
| Concept pair | Association description | Association name |
| Controller ↔ DiseaseData | Searches | Search data |
| Controller ↔ Viewer | Shows the symptoms / disease to the user. | Show disease |
| Controller ↔ keystorage | Checks user’s information and sLoends what the patient input to the DB. | Check  user’s information, symptom |

3.

UC – 3

1. Extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility description | Type | Concept name |
| Coordinate actions of all concepts associated with a use case, a logical grouping of use cases, or the entire system and delegate the work to other concepts. | D | Controller |
| Connects the patient and the doctor by using the system call. | D | ConnectPD |
| Contains the location data about where the patient is and the hospital / the doctor is. | K | LocationInfo |
| Finds the nearest hospital or doctor from the patient. | D | FindNearest |
| Arranges the result by distance, reputation, etc. | D | ArrangeResult |
| Contains the patient’s data in the medical database. (previous diagnose, which doctor he/she met, etc.) | K | CurrentMedicalData |
| Checks whether patient’s data is in the medical database. | K | CheckMedicalData |
| Loads patient’s data from the medical database. | D | LoadMedicalData |
| Shows the Connection Page. If the patient or the doctor uses the camera, it shows each other. | D | Viewer |
| Checks the audio and the video every time. | D | Audio, Video |
| Prepare a database query that best matches the actor’s search criteria and retrieve the records from the database. | D | Database Connection |
| Contains the doctor’s data. (Name, Degree, Carrier, etc.) | K | CurrentDoctorData |

2. Extracting the Associations

|  |  |  |
| --- | --- | --- |
| Concept pair | Association description | Association name |
| Controller ↔ Audio, Video | Checks the audio and video quality. | Maintain quality |
| CurrentDoctorData ↔ Viewer | Shows the patient the information about the doctor | ShowDoctor |
| CurrentMedicalData ↔ Viewer | Shows the doctor the data about the patient. | ShowPatient |

UC – 4

1. Extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| Coordinate actions of all concepts associated with a use case, a logical grouping of use cases, or the entire system and delegate the work to other concepts. | D | Controller |
| Display the Home Button screen. | D | Viewer |
| Define functions about Button input. | K | DefinePush |
| Checks whether the button is pushed. | D | CheckPush |
| Saves data in the database. | D | SaveData |
| Sends Home Page. | D | SendHome |

2. Extracting the Associations

|  |  |  |
| --- | --- | --- |
| Concept pair | Association description | Association name |
| SaveData ↔ Database connection | Uploads data in to the DB. | Upload DB |

UC – 5

1. Extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| Coordinate actions of all concepts associated with a use case, a logical grouping of use cases, or the entire system and delegate the work to other concepts. | D | Controller |
| Display the data about the patient on the screen. | D | Viewer |
| Define functions about keyboard input. | K | CheckInput |
| Contains the patient’s data in the medical database. (previous diagnose, which doctor he/she met, etc.) | K | CurrentMedicalData |
| Saves and uploads patient’s data in the medical database. | D | SaveMedicalData |
| Checks whether patient’s data is in the medical database. | D | CheckMedicalData |
| Loads patient’s data from the medical database. | D | LoadMedicalData |
| Sends the data to the patients. | D | SendMedicalData |
| Checks whether the patient met the doctor. | D | CheckMeet |
| Value of User keyboard input. | K | KeyboardEntry |
| Prepares a database and retrieves the records from the database | D | Database Connection |

2. Extracting the Associations

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| --- | --- | --- |
| Concept pair | Association description | Association name |
| Controller ↔ datas | 각 data들이 DB로 업데이트 되기 전 controller에서 정보 수집 | Collect data |
| SavePatientData ↔ Database connection | 각 data concept에서 수집한 Data들을 DB에 upload (data 수정) | Upload DB |
| Controller ↔ Viewer | 컨트롤러를 통해 display 환경 지속적으로 관리 | Management display |

UC – 6

1. Extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| Coordinate actions of all concepts associated with a use case, a logical grouping of use cases, or the entire system and delegate the work to other concepts. | D | Controller |
| Display the result and the information of others. | D | Viewer |
| Define functions about Button input. | K | DefinePush |
| Checks whether the button is pushed. | D | CheckPush |
| Removes the connect which is done. | D | RemoveConnect |
| Contains the location data about where the patient is and the hospital / the doctor is. | K | LocationInfo |
| Calls the emergency call to the hospital which is the nearest to the patient. | D | CallEmergency |
| Finds the nearest hospital or doctor from the patient. | D | FindNearest |
| Prepares a database and retrieves the records from the database | D | Database Connection |

2. Extracting the Associations

|  |  |  |
| --- | --- | --- |
| Concept pair | Association description | Association name |
| CallEmergency ↔ FindNearest | 긴급호출시는 무조건 가장가까운 의료진을 연결 | Connect immediately |

UC – 7

1. Extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| Coordinate actions of all concepts associated with a use case, a logical grouping of use cases, or the entire system and delegate the work to other concepts. | D | Controller |
| Display the survey screen. | D | Viewer |
| Form specifying the search parameters for database log retrieval | K | Search Request |
| Checks whether the patient used the searching. | D | CheckSearch |
| Checks whether the patient met the doctor by using the system. | D | CheckMeet |
| Define functions about Click input. | K | CheckInput |
| Value of User Click input. | K | ScoreEntry |
| Saves and uploads the score to the system database. | D | SaveScore |
| Checks whether patient’s data is in the medical database. | K | CheckMedicalData |
| Prepares a database and retrieves the records from the database | D | Database Connection |

2. Extracting the Associations

|  |  |  |
| --- | --- | --- |
| Concept pair | Association description | Association name |
| CheckPatientData ↔ Viewer | 환자 정보또한 의료진이 확인할 수 있다. | Display patient info |

UC – 8

1. Extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| Coordinate actions of all concepts associated with a use case, a logical grouping of use cases, or the entire system and delegate the work to other concepts. | D | Controller |
| Display the prescription on the screen. | D | Viewer |
| Checks whether the patient met the doctor. | D | CheckMeet |
| Contains the data about the prescription in the medical database. | K | CurrentPrescriptionData |
| Saves and uploads data about the prescription in the medical database. | D | SavePrescriptionData |
| Checks whether the patient used the searching. | D | CheckSearch |
| Form specifying the search parameters for database log retrieval | K | Search Request |
| Checks whether patient’s data is in the medical database. | K | CheckMedicalData |
| Prepares a database and retrieves the records from the database | D | Database Connection |

2.