UC-1 : Login/Register

extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| Coordinate actions of all concepts associated with a use case. | D | Controller |
| Check ID which has same ID and Password compared with Database’s data | D | ValidIDChecker |
| Registered ID data is stacked in here. | K | Database |
| Employee sends approval request message to administer and administer send approval message to employee to ID valid. | D | MessageSender |
| If ID is not valid or register is complete, system give instruction message box to user. | D | SystemMessage |
| Move display to selected button | D | Display mover |
| Display the current information | D | display |

Extraction the Associations

|  |  |  |
| --- | --- | --- |
| Concept pair | Association description | Association Name |
| Controller  <-> ValidIDChecker | Controller gives Database data to ValidIDChecker. | Conveys data |
| ValidIDChecker<->Database | Use database’s data to check. | Provides data |
| Controller <->SystemMessage | Controller shows SystemMessage to user. | Conveys data |

Extraction the Attributes

|  |  |  |
| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| SystemMessage | Instruction information | Register Success, log-in fail message box. |
| Database | Registered  ID information | Valid data for log-in |
| Display | show essential information | By display mover, display is changed. selecting employee, admin display to log-in display, log-in display to register display. |
| Display mover | Move display | By touch, move display back and front. |

UC-2: Selection menu

extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| ‘Display mover’ move proper display. | D | controller |
| Display the possible choices of menu | D | Display |
| Menu’s next display information | K | Database |
| Move display to selected page | D | Display mover |
| Display the current menu’s information | D | Display |

Extraction the Associations

|  |  |  |
| --- | --- | --- |
| Concept pair | Association description | Association Name |
| Database  <->controller | Display mover needs menu data to move appropriate display | Provides data |

Extraction the Attributes

|  |  |  |
| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| Display mover | Move display | ‘back’ button exist for all display. So can move to other menu’s contents. |

UC-3: Company information

extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| ‘display mover’ move proper display. | D | controller |
| Display the current menu information | D | Display |
| Company’s information about financial state, CED etc. | K | database |

Extraction the Associations

|  |  |  |
| --- | --- | --- |
| Concept pair | Association description | Association Name |
| database  <-> controller | Get company’s data from database. | Conveys data |

Extraction the Attributes

|  |  |  |
| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| database | Company’s information | Information about current state of company. information include financial information, basic introduction, CEO, etc. |

UC-4: Suggestion box

extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| Control overall concepts. | D | controller |
| Display the current menu information | D | Display |
| Move display to selected button | D | Display mover |
| When post and comment done, confirm message is delivered. | K | System message |
| Posted data is storage in here. and save unfinished document in here too. | K | Database |
| Uploads the posted data chronologically. Add comments for articles in read displays. | D | Data Controller |
| Used for updating data immediately. | D | Time controller |

Extraction the Associations

|  |  |  |
| --- | --- | --- |
| Concept pair | Association description | Association Name |
| controller  <-> display mover | Needs for move appropriate display. | Provides data |
| Data controller  <->time controller | Time controller’s data is used for immediate update. | Provides data |
| Data controller  <-> Database | Information acted in data controller stacked in Database. | Conveys data |

Extraction the Attributes

|  |  |  |
| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| Time controller | time information | Concurrent time information |
| display | Display information | Post display, Read display |
| Database | Article information | Updated Article information |
| Comment information | Updated comment information |

UC-5: Payment

extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| Control overall concepts. | D | controller |
| Display the current menu information | D | Display |
| Information about user’s payments. | K | Database |
| Restrict employee’s access of all user’s payment display | D | Restriction controller |
| Move display to selected button | D | Display mover |
| User’s information who using this app (administer or employee) | K | User data |

Extraction the Associations

|  |  |  |
| --- | --- | --- |
| Concept pair | Association description | Association Name |
| Display mover  <-> controller | Display moves to Post and Read display when touched. | Conveys data |
| Restriction controller  <-> User data | Restrict based on user data | Provides data |
| Database<-> display | Display based on payment info’s data | Provides data |

Extraction the Attributes

|  |  |  |
| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| Database | Payment information | Payment by the month information and annual income information |
| Restriction controller | Accepted or rejected user information | Administer is accepted and employee is rejected. |
| User data | criteria | User data is criteria that user can access to information |

UC-6: Employee management

extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| Control overall concepts. | D | controller |
| Display the current menu information | D | Display |
| Move display to selected button | D | Display mover |
| Employee’s data is used by only administer | K | User data |
| employee’s data is registered | K | Database |
| Sort employee’s information by alphabetic order | D | Database management. |
| UC-1’s require is accepted in this UC. | D | Message Sender |

Extraction the Associations

|  |  |  |
| --- | --- | --- |
| Concept pair | Association description | Association Name |
| Controller <-> user data | Call employee’s register when administer want that information | Conveys data |
| Database <-> database management | Arrange data in database. New data is arranged efficiently. | Manage data |
| Message Sender <->database | When new id is registered, administer can accept or reject that id. And message sender sends this result to ‘new id user’. | Conveys data |

Extraction the Attributes

|  |  |  |
| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| database | Information about employee | This information is registered when user edited and registered in first time |

UC-7: Leave management

extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| Control overall concepts. | D | controller |
| Display the current menu information | D | Display |
| Move display to selected button | D | Display mover |
| Schedule use case is used for selects the day when user wants | D | Calendar |
| Employee’s data is used by only administer | K | User data |
| Administer and employee give and take message about leave plan. | D | Message Sender |
| Delivered data is storage. | K | database |

Extraction the Associations

|  |  |  |
| --- | --- | --- |
| Concept pair | Association description | Association Name |
| Display mover  <-> controller | Display moves to Post and Read display when touched. | Conveys data |
| User data<->Controller | Can accept or reject when user is administer. Employee can only request. | Conveys data |

Extraction the Attributes

|  |  |  |
| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| Calendar | Company’s schedule | Company’s schedule is considered. When company’s essential day, employee can not request leave plan. |

UC-8: Retirement/Absence

extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| Control overall concepts. | D | controller |
| Display the current menu information | D | Display |
| Move display to selected button | D | Display mover |
| Schedule use case is used for selects the day when user wants | D | Calendar |
| Employee’s data is used by only administer | K | User data |
| Administer and employee give and take message each other. | D | Message Sender |
| Delivered messages are saved. | K | database |

Extraction the Associations

|  |  |  |
| --- | --- | --- |
| Concept pair | Association description | Association Name |
| Display mover  <-> controller | Display moves to Post and Read display when touched. | Conveys data |
| User data<->Controller | Can accept or reject when user is administer. Employee can only request. | Conveys data |

Extraction the Attributes

|  |  |  |
| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| Calendar | Company’s schedule | Employee select day on calendar. |

UC-9: Schedule

extracting the responsibility

|  |  |  |
| --- | --- | --- |
| Responsibility Description | Type | Concept Name |
| Control overall concepts. | D | controller |
| Display the current menu information | D | Display |
| Move display to selected button | D | Display mover |
| Have display information. | D | Calendar |

Extraction the Associations

|  |  |  |
| --- | --- | --- |
| Concept pair | Association description | Association Name |
| Display  <-> calendar | Displayed by calendar’s information. | Conveys data |