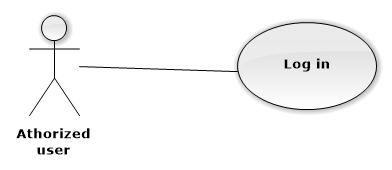
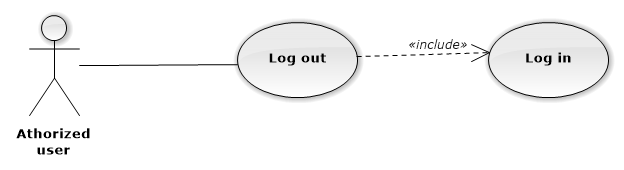
### List of Use Case

##### <User> Log in



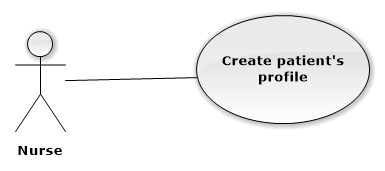
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| **USE CASE - UCA01** | | | |
| **Use Case No.** | UCA01 | **Use Case Version** | 1.0 |
| **Use Case Name** | Log in | | |
| **Author** | Trần Đăng Quân | | |
| **Date** | 23/09/2015 | **Priority** | Normal |
| **Actor:**   * Authorized user (admin, staff, doctor, nurse)   **Summary:**   * This use case allows authorized user logging into system.   **Goal:**   * User can view the main page of web application.   **Triggers:**   * User input username and password on login page, then press “Log in”.   **Preconditions:**   * None.   **Post Conditions:**   * **Success:** Main page displayed. * **Fail:** Error message displayed that wrong username or password.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User input username and password, then press “Log in” button. | * Display main page if username and password are valid. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User input username and password, then press “Log in” button. | Display error message: “Wrong username or password.” |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User input username and password, then press “Log in” button. | Display error page with message: “System has getting error. Please try again later”. | | 2 | Not all required field has been filled. | Display error message: “Please input username and password.” |   **Relationships:** none  **Business Rules:**   * The username is not empty or include whitespace, special character, max length is 20 characters. * The password is not empty or include whitespace, special character, max length is 20 characters. | | | |

##### <User> Log out



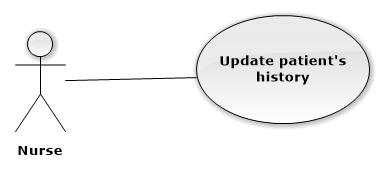
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| **USE CASE – UCA02** | | | |
| **Use Case No.** | UCA02 | **Use Case Version** | 1.1 |
| **Use Case Name** | Log out | | |
| **Author** | Trần Đăng Quân | | |
| **Date** | 23/09/2015 | **Priority** | High |
| **Actor:**   * Authorized user.   **Summary:**   * This use case allows authorized user logging out of system.   **Goal:**   * User can view the login page.   **Triggers:**   * Click “Log out” button in the top right corner of page.   **Preconditions:**   * User must be logged in the system before.   **Post Conditions:**   * **Success:** Display login page. * **Fail:** Cannot log out of system.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Clicks on “Log out” button. | Display login page. |   **Alternative Scenario:** none  **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | [1] Click on “Log out” button | Display error page with message: “System has getting error. Please try again later”. |   **Relationships:** none  **Business Rules:**  none | | | |

##### <Nurse> Create patient’s profile



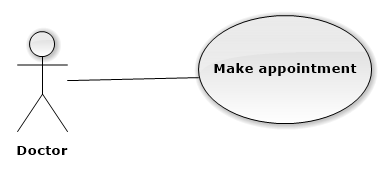
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| **USE CASE – UCA03** | | | |
| **Use Case No.** | UCA03 | **Use Case Version** | 1.0 |
| **Use Case Name** | Create patient profile | | |
| **Author** | Trần Đăng Quân | | |
| **Date** | 24/09/2015 | **Priority** | High |
| **Actor:**   * Nurse.   **Summary:**   * This use case allows nurse to register new patient profile.   **Goal:**   * Patient profile is added into system.   **Triggers:**   * Nurse click “Register patient” button in the menu bar on the left side.   **Preconditions:**   * Nurse must be logged in the system before.   **Post Conditions:**   * **Success:** Display message that “Patient profile has been created”. * **Fail:** Display message that “Error while creating patient profile”.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | [1] Clicks on “Register patient” button.  [3] Nurse input patient profile on field:  - Name: text box.  - Birthday: date picker  - Gender: radio button.  - Weight: text box.  - Height: text box.  - Doctor: assignee doctor, drop-down-list with autocomplete text.  - Status: text box  [4] Nurse click on “Register” button | [2] Display register patient page.  [5] Display message that “Patient profile has been created”. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | [1] Clicks on “Cancel” button | [2] All field has been reset. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Not input required fields | Display message that “Please input all field”. | | 2 | After input all fields, nurse click on “Register” button | Display error page with message: “System has getting error. Please try again later”. |   **Relationships:** none.  **Business Rules:**   * Name: text box’s length must be less than 50 characters, not null. * Gender: 2 option: male and female * Weight: max value is 300. * Height: max value is 3.0. * Status: max length is 1000 characters. | | | |

##### <Nurse> Update patient’s history



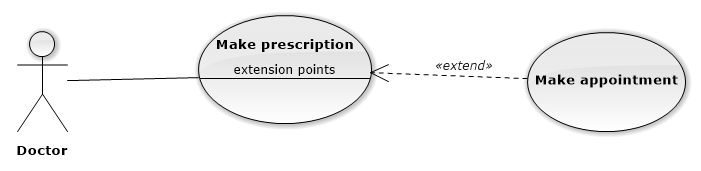
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| **USE CASE – UCA04** | | | |
| **Use Case No.** | UCA04 | **Use Case Version** | 1.0 |
| **Use Case Name** | Update patient’s history. | | |
| **Author** | Trần Đăng Quân | | |
| **Date** | 24/09/2015 | **Priority** | High |
| **Actor:**   * Nurse.   **Summary:**   * This use case allows nurse to update new patient’s history.   **Goal:**   * New patient’s history is added into system.   **Triggers:**   * Nurse click “Patient” button in the menu bar on the left side. * Nurse click on suitable patient, fill new status, click on “Update” button.   **Preconditions:**   * Nurse must be logged in the system before.   **Post Conditions:**   * **Success:** Display message that “Patient’s medical history has been created”. * **Fail:** Display message that “Error while updating patient’s medical history”.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | [1] Clicks on “Patient” menu.  [3] Nurse input name of patient on search bar if need.  [4] Nurse click on row of suitable patient.  [6] Nurse input required field:  - Status: text box.  - Doctor: the assignee, drop-down-list with autocomplete text.  [7] Nurse click on “Update” button. | [2] Display patient page and list of available patients.  [5] Display patient information page”.  [8] Display message that “Patient’s medical record has been created. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | [1] Clicks on “Cancel” button | [2] All field has been reset. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Not input required fields | Display message that “Please input all field”. | | 2 | After input all fields, nurse click on “Update” button | Display error page with message: “System has getting error. Please try again later”. |   **Relationships:** none.  **Business Rules:**   * Name: text box’s length must be less than 50 characters, not null. * Gender: 2 option: male and female * Weight: max value is 300. * Height: max value is 3.0. * Status: max length is 1000 characters. | | | |

##### <Doctor> Make appointment.



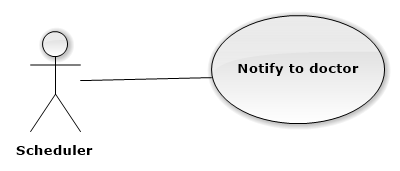
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| **USE CASE – UCA05** | | | |
| **Use Case No.** | UCA05 | **Use Case Version** | 1.0 |
| **Use Case Name** | Make appointment | | |
| **Author** | Trần Đăng Quân | | |
| **Date** | 24/09/2015 | **Priority** | High |
| **Actor:**   * Doctor.   **Summary:**   * This use case allows doctor to make appointment with patient.   **Goal:**   * New appointment record is added into system.   **Triggers:**   * Doctor click “Patient” button in the menu bar on the left side. * Doctor click on suitable patient, click on “Make appointment” button.   **Preconditions:**   * Doctor must be logged in the system before.   **Post Conditions:**   * **Success:** Display message that “Appointment has been created”. * **Fail:** Display message that “Error while creating appointment”.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | [1] Clicks on “Patient” menu.  [3] Doctor input name of patient on search bar if need.  [4] Doctor click on row of suitable patient.  [6] Doctor click on “Make appointment”.  [8] Doctor input fields:  - Appointment date: date picker.  - Message: textbox.  [9] Doctor click “Submit” button. | [2] Display patient page and list of available patients.  [5] Display patient information page”.  [7] Display pop-up.  [10] Display message that “New appointment has been created. It will be send to patient”. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | [9] Clicks on “Cancel” button | [10] Pop-up is disappear. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Not input required fields | Display message that “Please input all field”. | | 2 | After input all fields, doctor click on “Submit” button | Display error page with message: “System has getting error. Please try again later”. |   **Relationships:** none.  **Business Rules:**   * Appointment date: must be in the future. | | | |

##### <Doctor> Make prescription.



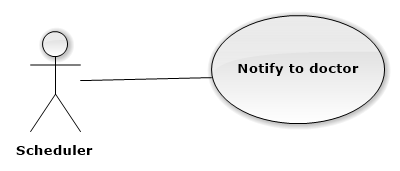
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| **USE CASE – UCA06** | | | |
| **Use Case No.** | UCA06 | **Use Case Version** | 1.0 |
| **Use Case Name** | Make prescription | | |
| **Author** | Trần Đăng Quân | | |
| **Date** | 24/09/2015 | **Priority** | High |
| **Actor:**   * Doctor.   **Summary:**   * This use case allows doctor to make prescription to patient.   **Goal:**   * New prescription data is created. The detail will be send to patient.   **Triggers:**   * Doctor click “Patient” button in the menu bar on the left side. * Doctor click on suitable patient, click on “Make prescription” button.   **Preconditions:**   * Doctor must be logged in the system before.   **Post Conditions:**   * **Success:** Display message that “Prescription has been created”. * **Fail:** Display message that “Error while making prescription”.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | [1] Clicks on “Patient” menu.  [3] Doctor input name of patient on search bar if need.  [4] Doctor click on row of suitable patient.  [6] Doctor click on “Make prescription”.  [8] Doctor input fields:  - Medicines:  + Name of medicine: drop-down-list with autocomplete text.  + Number of times per day: textbox.  + Number of quantity per time:  - Food:  + Name of food: drop-down-list with autocomplete text.  + Time: breakfast or lunch or dinner.  - Practice:  + Name of practice: drop-down-list with autocomplete text.  + Intensity: number of time per day.  - Suggestion: text box.  [9] Doctor click “Submit” button. | [2] Display patient page and list of available patients.  [5] Display patient information page”.  [7] Display prescription page.  [10] Display message that “New prescription has been created. It will be send to patient”. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Clicks on “Cancel” button | All field has been reset. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Not input required fields | Display message that “Please input all required fields”. | | 2 | After input all fields, doctor click on “Submit” button | Display error page with message: “System has getting error. Please try again later”. |   **Relationships:** none.  **Business Rules:**   * Number of times per day: positive number. * Number of quantity per time: positive number. * Medicines: required. * Food: optional. * Practice: optional. | | | |

##### <Scheduler> Notify to doctor.



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| **USE CASE – UCA07** | | | |
| **Use Case No.** | UCA07 | **Use Case Version** | 1.0 |
| **Use Case Name** | Notify to doctor. | | |
| **Author** | Trần Đăng Quân | | |
| **Date** | 24/09/2015 | **Priority** | High |
| **Actor:**   * Scheduler.   **Summary:**   * This use case allows doctor receiving notification.   **Goal:**   * Notification has been sent to doctor.   **Triggers:**   * Patient has been sick or in emergency state. * Patient feedback to doctor about treatment.   **Preconditions:**   * Doctor must be logged in the system before.   **Post Conditions:**   * **Success:** Display notification on the right corner of screen. * **Fail:** Do not display notification on the right corner of screen.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | [1] Doctor log in the system.  [3] Doctor click on notification icon to see the detail message. | [2] If trigger has been occur, system display new notification on the right corner of page. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response |   **Relationships:** none.  **Business Rules:**   * Notification must be sent to doctor within 10 seconds if he/she is available. | | | |

##### <Scheduler> Notify to patient.



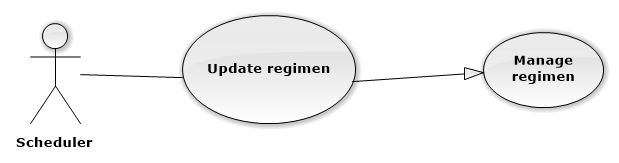
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| **USE CASE – UCA08** | | | |
| **Use Case No.** | UCA08 | **Use Case Version** | 1.0 |
| **Use Case Name** | Notify to patient. | | |
| **Author** | Trần Đăng Quân | | |
| **Date** | 24/09/2015 | **Priority** | High |
| **Actor:**   * Scheduler.   **Summary:**   * This use case allows patient receiving notification.   **Goal:**   * Notification has been sent to doctor.   **Triggers:**   * Doctor make new prescription or new appointment.   **Preconditions:**   * Patient must be logged in the mobile application before.   **Post Conditions:**   * **Success:** Display notification on the mobile screen. * **Fail:** Do not display notification on the mobile screen.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | [1] Patient log in the system.  [3] Patient click on notification icon to see the detail message or prescription. | [2] If trigger has been occur, mobile screen display new notification. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response |   **Relationships:** none.  **Business Rules:**   * Notification must be sent to patient within 10 seconds if he/she is available. | | | |

##### <Doctor> Insert regimen



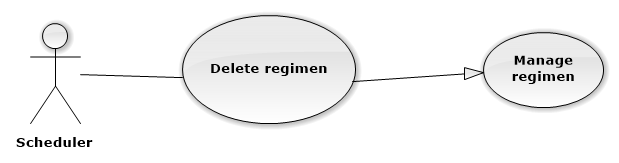
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| **USE CASE – UCA09** | | | |
| **Use Case No.** | UCA09 | **Use Case Version** | 1.0 |
| **Use Case Name** | Insert regimen | | |
| **Author** | Trần Đăng Quân | | |
| **Date** | 24/09/2015 | **Priority** | High |
| **Actor:**   * Doctor.   **Summary:**   * This use case allows doctor insert new regimen.   **Goal:**   * Regimen for an illness is created.   **Triggers:**   * Doctor click on “Regimen” menu then click on “Create new” button.   **Preconditions:**   * Doctor must be logged in the mobile application before.   **Post Conditions:**   * **Success:** New regimen have to be displayed on the list of Regimen page. * **Fail:** New regimen does not exist on the list of Regimen page.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | [1] Doctor click on “Regimen” menu.  [3] Doctor click “Create New” button.  [5] Doctor input required field:  - Name of regimen: textbox.  - Name of illness: drop-down-list with auto-complete.  - Age of patient: textbox, positive integer.  - Department: textbox  - Approved doctor: textbox  [6] Doctor click button “Submit”. | [2] Display regimen list.  [4] Display create regimen page.  [7] Display regimen list, included new regimen. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Doctor click “Cancel” button on create regimen page | Display original regimen list. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Not input required fields | Display message that “Please input all required fields”. | | 2 | After input all fields, doctor click on “Submit” button | Display error page with message: “System has getting error. Please try again later”. |   **Relationships:** none.  **Business Rules:**   * Name of regimen must not equal any available regimen on system. | | | |

##### <Doctor> Update regimen



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| **USE CASE – UCA10** | | | |
| **Use Case No.** | UCA10 | **Use Case Version** | 1.0 |
| **Use Case Name** | Update regimen | | |
| **Author** | Trần Đăng Quân | | |
| **Date** | 24/09/2015 | **Priority** | High |
| **Actor:**   * Doctor.   **Summary:**   * This use case allows doctor update current regimen.   **Goal:**   * Regimen for an illness is updated.   **Triggers:**   * Doctor click on “Regimen” menu then click on the row of regimen. * Doctor click on the suitable row of regimen in the list.   **Preconditions:**   * Doctor must be logged in the system before.   **Post Conditions:**   * **Success:** The regimen has been updated with new info. * **Fail:** The regimen has not been updated.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | [1] Doctor click on “Regimen” menu.  [3] Doctor click on the row of suitable regimen.  [5] Doctor input fields:  - Name of regimen  - Name of illness  - Age of patient  - Department.  - Approved doctor.  - List of phase: data table, doctor can click on one phase to edit detail or delete, or create new phase.  [6] Doctor click “Save” | [2] Display regimen list.  [4] Display regimen page.  [7] Display regimen page. If doctor click on regimen, the new information has been show. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Doctor click “Cancel” button on create regimen page | Display original regimen list. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Not input required fields | Display message that “Please input all required fields”. | | 2 | After input all fields, doctor click on “Submit” button | Display error page with message: “System has getting error. Please try again later”. |   **Relationships:** none.  **Business Rules:**   * Name of regimen must not equal any available regimen on system. | | | |

##### <Doctor> Delete regimen



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| **USE CASE – UCA11** | | | |
| **Use Case No.** | UCA11 | **Use Case Version** | 1.0 |
| **Use Case Name** | Delete regimen | | |
| **Author** | Trần Đăng Quân | | |
| **Date** | 24/09/2015 | **Priority** | High |
| **Actor:**   * Doctor.   **Summary:**   * This use case allows doctor delete a regimen.   **Goal:**   * Regimen is deleted.   **Triggers:**   * Doctor click on “Regimen” menu then click on the row of regimen. * Doctor click the button “Delete” on suitable row of regimen in the list.   **Preconditions:**   * Doctor must be logged in the system before.   **Post Conditions:**   * **Success:** The regimen has been deleted. * **Fail:** The regimen has not been deleted.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | [1] Doctor click on “Regimen” menu.  [3] Doctor click the button “Delete” on the row of suitable regimen. | [2] Display regimen list.  [4] Display regimen list, the deleted regimen has not been showed. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 2 | Doctor click the button “Delete” on the row of suitable regimen. | Display error page with message: “System has getting error. Please try again later”. |   **Relationships:** none.  **Business Rules:**   * Doctor should confirm by Yes/No button before the regimen has been deleted. | | | |

##### <Doctor> Insert phase

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| **USE CASE – UCA11** | | | |
| **Use Case No.** | UCA11 | **Use Case Version** | 1.0 |
| **Use Case Name** | Insert phase | | |
| **Author** | Trần Đăng Quân | | |
| **Date** | 24/09/2015 | **Priority** | High |
| **Actor:**   * Doctor.   **Summary:**   * This use case allows doctor insert a phase to the regimen.   **Goal:**   * Regimen has new phase.   **Triggers:**   * On the detail page of regimen, doctor click “Create new phase” button.   **Preconditions:**   * Doctor must be logged in the system before.   **Post Conditions:**   * **Success:** New row of phase has been added into list of phase. * **Fail:** New row of phase has not been added into list of phase.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | [1] Doctor click on “Create new phase” button on screen of detail regimen.  [3] Doctor input fields:  - Medicines: list of medicine.  - List of practices (optional).  - List of food (optional).  [4] Doctor click “Save” button. | [2] Display new phase on list of phase.  [5] Display the detail page of regimen. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 2 | Doctor click the button “Save” on the row of suitable regimen. | Display error page with message: “System has getting error. Please try again later”. |   **Relationships:** none.  **Business Rules:**   * Doctor should confirm by Yes/No button before the phase has been saved. | | | |

##### <Doctor> Update phase

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| **USE CASE – UCA11** | | | |
| **Use Case No.** | UCA11 | **Use Case Version** | 1.0 |
| **Use Case Name** | Update phase | | |
| **Author** | Trần Đăng Quân | | |
| **Date** | 24/09/2015 | **Priority** | High |
| **Actor:**   * Doctor.   **Summary:**   * This use case allows doctor update a phase in the regimen.   **Goal:**   * The detail information of phase has been updated.   **Triggers:**   * On the detail page of regimen, doctor click on the row of phase.   **Preconditions:**   * Doctor must be logged in the system before.   **Post Conditions:**   * **Success:** Detail of phase has been updated. * **Fail:** Detail of phase has not been updated.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | [1] On the detail regimen page, doctor click button “Update” on the row of suitable phase.  [3] Doctor re-input fields:  - Medicines: list of medicine.  - List of practices (optional).  - List of food (optional).  [4] Doctor click “Save” button. | [2] Display detail information of phase.  [5] Display the detail page of regimen. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | |  | Doctor click “Cancel” button | Display original information of phase. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 2 | Doctor click the button “Save” on the row of suitable regimen. | Display error page with message: “System has getting error. Please try again later”. |   **Relationships:** none.  **Business Rules:**   * Doctor should confirm by Yes/No button before the phase has been updated. | | | |

##### <Doctor> Delete phase

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| **USE CASE – UCA11** | | | |
| **Use Case No.** | UCA11 | **Use Case Version** | 1.0 |
| **Use Case Name** | Delete phase | | |
| **Author** | Trần Đăng Quân | | |
| **Date** | 24/09/2015 | **Priority** | High |
| **Actor:**   * Doctor.   **Summary:**   * This use case allows doctor delete a phase in the regimen.   **Goal:**   * The phase is deleted from the regimen.   **Triggers:**   * On the detail page of regimen, doctor click button “Delete” the row of phase.   **Preconditions:**   * Doctor must be logged in the system before.   **Post Conditions:**   * **Success:** The phase has been deleted. * **Fail:** The phase has not been deleted.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | [1] On the detail regimen page, doctor click button “Delete” on the row of suitable phase. | [2] Display detail information of regimen, the deleted phase has not been showed. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 2 | Doctor click the button “Delete” on the row of suitable regimen. | Display error page with message: “System has getting error. Please try again later”. |   **Relationships:** none.  **Business Rules:**   * Doctor should confirm by Yes/No button before the phase has been deleted. | | | |