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| |  |  |  | | --- | --- | --- | | **C:\Users\sonnx0907\Desktop\Untitled.png** | **MINISTRY OF EDUCATION AND RAINING** | | | **FPT UNIVERSITY** | | |
| Capstone Project Document |
| Hospital Finder |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | **Group 11** | | | **Group Members** | Lê Phước Việt – Team Leader – SE60706  Nguyễn Xuân Sơn – Team Member – SE60727  Dương Thị Hoàng Anh – Team Member – 60434 | | **Supervisor** | Nguyễn Đức Khoan | | **Ext Supervisor** | N/A | | **Capstone Project code** | HospitalF | | |
| - Ho Chi Minh City, May / 2014 - |

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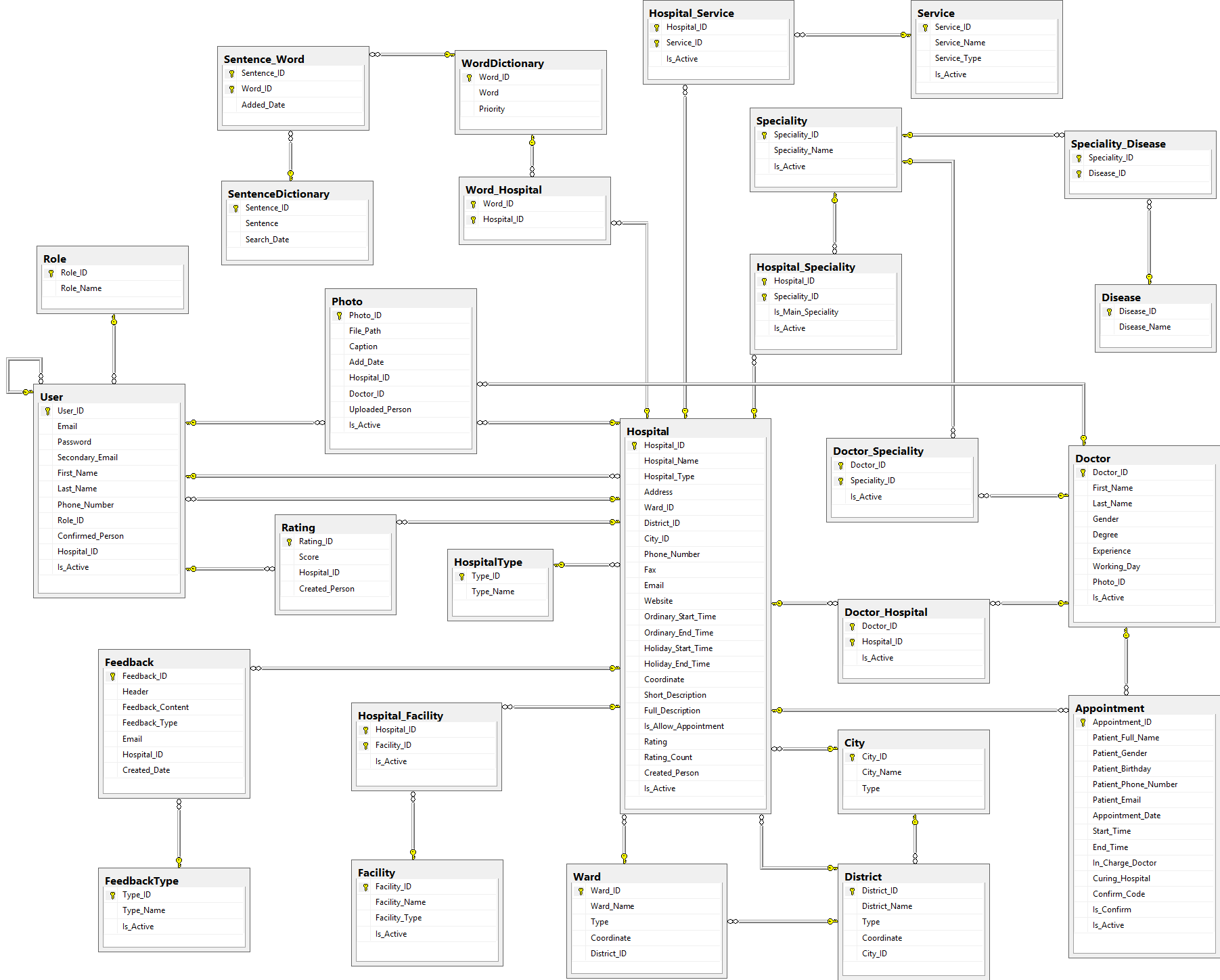
**Report No.5: System Implementation & tTest (SIT)**

1. **Introduction**

This document describes how Hospital Finder system was implemented and tested, it also includes methods and technical issues to make the project run smoothly and achieve and expected business.

The main testing methods are System testing and Black-box testing.

1. **Database relationship Diagrams**

****

1. **Screen shots / Perfomance measures**
2. **Test Plan**
3. **Features to be tested**
4. **Features not to be tested**
5. **Testing Tools and Environment**
6. **Test Cases**
   1. **Login**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Pre-Conditions** | **Test Case Procedure** | **Expected Output** | **Result** | **Test Date** | **Note** |
| LG001 | Check authentication of users. | Access the system at the address: http://localhost:18303/Account/Login | 1. Fill in the fields below:   * Email: Textbox (Required) * Mật khẩu: Mật khẩu (Required)   2. Click "Đăng nhập" button | Depending on account’s role, users will be automatically transfer to page:   * Administrator: Hospital list page * Hospital User: Hospital profile page |  |  |  |
| LG002 | Email is blank | Access the system at the address: http://localhost:18303/Account/Login | 1. Fill in ‘’ field, let Email field blank.  2. Click "Đăng nhập" button | Display error message **CEM001**.  {0} “Email” |  |  |  |
| LG003 | Mật khẩu is blank | Access the system at the address: http://localhost:18303/Account/Login | 1. Fill in Email field, let Mật khẩu field blank.  2. Click "Đăng nhập" button | Display error message **CMS002**.  {0} “Mật khẩu” |  |  |  |
| LG004 | Email is not in valid format | Access the system at the address: http://localhost:18303/Account/Login | 1. Fill in Email and Mật khẩu field with Email field is not in email formt  2. Click "Đăng nhập" button | Display error message **CEM005.**  {0} “Email” |  |  |  |
| LG005 | Email or Mật khẩu is not valid | Access the system at the address: http://localhost:18303/Account/Login | 1. Fill in the fields below:   * Email: Textbox (Required) * Mật khẩu: Mật khẩu (Required)   2. Click "Đăng nhập" button | Display error message **SEM011.** |  |  |  |
| LG006 | System error | Access the system at the address: http://localhost:18303/Account/Login | 1. Click "Đăng nhập" button after filling valid Email and Mật khẩu fields. | Display notification message on top of Email field with the content **SMS001**. |  |  |  |
| LG007 | Remember account | Access the system at the address: http://localhost:18303/Account/Login | 1. Enable “Ghi nhớ đăng nhập” checkbox  2. Fill in Email and Mật khẩu field with valid information.  3. Click "Đăng nhập" button  4. Exit browser  5. Access login page for Administrator and Hospital User | Automatically logging in the system and transfer to appropriate page according to account’s role |  |  |  |
| LG008 | Disable Login page | Access the system at the address: http://localhost:18303/Account/Login | 1. Enable “Ghi nhớ đăng nhập” checkbox  2. Fill in Email and Mật khẩu field with valid information.  3. Click "Đăng nhập" button  4. Click back button of browser | Cannot return to Login page |  |  |  |
| 0LG09 | Redirect to Login page | N/A | 1. Paste address of any page that required authenticated Aministrator or Hospital User account | Return to login page for Administrator and Hospital User |  |  |  |
| LG010 | Redirect to appropriate URL | Acess the system at the URL that required Aministrator or Hospital User account | 1. Fill in Email and Mật khẩu field with valid information.  2. Click "Đăng nhập" button | Redirect to the page according to ‘ReturnUrl’ attribute of URL |  |  |  |
| LG011 | Redirect to forgot Mật khẩu page | Access the system at the address: http://localhost:18303/Account/Login | 1. Click on the URL "Quên mật khẩu?” | Redirect to forgot Mật khẩu page |  |  |  |
| LG012 | Check authentication of users. | Access the system at the address: http://localhost:18303 | 1. Click Facebook icon on the top right side of the page  2. Fill in valid Facebook email and passoword | Grant authorization for User |  |  |  |

* 1. **Search Hospital**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Pre-Conditions** | **Test Case Procedure** | **Expected Output** | **Result** | **Test Date** | **Note** |
| SH001 | Normal search function | Access the system at the address: http://localhost:18303/ | 1. Fill the query in searching field ad presss <Enter> or click “Tìm kiếm” button  2. The typed query is: “bệnh viện ở quận 5” | The list of hostpitals and detailed information that location is in 5 District | Passed |  |  |
| SH002 | Location search function with current location | Access the system at the address: <http://localhost:18303/> and click on “Tìm kiếm theo vị trí” tab | 1. Select “Vị trí hiện tại” option in “Tìm theo” dropdown list  2. Select distance option in “Bán kính” dropdown list.  3. Presss <Enter> or click “Tìm kiếm” button | The list of hospitals that distance from current location to each hospital’s location <= the option that user selected in “Bán kính” dropdown list | Passed |  |  |
| SH003 | Location search function with typing location | Access the system at the address: <http://localhost:18303/> and click on “Tìm kiếm theo vị trí” tab | 1. Select “Nhập địa chỉ” option in “Tìm theo” dropdown list  2. Fill the position in “Vị trí cần tìm” field  3. Select distance option in “Bán kính” dropdown list.  4. Presss <Enter> or click “Tìm kiếm” button | The list of hospitals that distance from typing location to each hospital’s location <= the option that user selected in “Bán kính” dropdown list | Passed |  |  |
| SH004 | Advanced seach function | Access the system at the address: <http://localhost:18303/> and click on “Tìm kiếm nâng cao” tab | 1. Selec option in “Tỉnh / Thành phố” dropdown list  2. Selec option in “Quận / Huyện” dropdown list  3. Selec option in “Tỉnh / Thành phố” dropdown list  4. Fill the condtion in “Triệu chứng” field  5. Presss <Enter> or click “Tìm kiếm” button | The list of hospitals with detailed information matched searching input | Passed |  |  |
| SH005 | Back button | Access the system at the address: <http://localhost:18303/> and search hospital | In search result page, click back button of browser | The back page with previous seaching query state | Failed |  |  |

* 1. **Import Hospital Using Excel**
  2. **Create Hospital**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Pre-Conditions** | **Test Case Procedure** | **Expected Output** | **Result** | **Test Date** | **Note** |
| CH001 | Validate fields | Access the system at the address: http://localhost:18303/Hospital/AddHospital | 1. Don’t interact any field and click  “Xác nhận” button | The form is not submit and display error messages for those required fieds below:   * Tên bệnh viện * Loại bệnh viện * Giờ khám ngày thường * Giờ khám ngày lễ và cuối tuần * Số địa chỉ * Tên đường * Tỉnh / Thành phố * Quận / Huyện / Thị xã * Phường / Xã * Số điện thoại chính |  |  |  |
| CH002 | Validate fields | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Fill in those fields with according values:   * Tên bệnh viện: Bệnh viện Gia Định * Loại bệnh viện: Bệnh viện công * Giờ khám ngày thường: 07:00 – 18:00 * Giờ khám ngày lễ và cuối tuần: 08:00 – 17:00 * Cho phép đăng ký khám trực tuyến * Số địa chỉ: 1 * Tên đường: Nơ Trang Long * Tỉnh / Thành phố: Hồ Chí Minh * Quận / Huyện / Thị xã: Bình Thạnh * Phường / Xã: Phường 7 * Số điện thoại chính: (08)38412692 * Người chịu trách nhiệm chính: [sonnx0907@gmail.com](mailto:sonnx0907@gmail.com)   2. Click “Xác nhận” button | The form is not submit  Error message **CEM014** will be displayed under “Địa chỉ đầy đủ” textbox  Message **CEM019** will be displayed under “Người chịu trách nhiệm chính” textbox |  |  |  |
| CH003 | Validate fields | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH002  2. Click “Lấy tọa độ từ địa chỉ” button | A marker will be displayed on Google map with the coordinate base on input address. This marker is available for dragging and locating new coordinate based on its location. |  |  |  |
| CH004 | Validate fields | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH002  2. Click on a specific location on Google map | A marker will be displayed at the location which the mouse has just clicked. This marker is available for dragging and locating new coordinate based on its location. |  |  |  |
| CH005 | Validate fields | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH002 except those values:   * Số địa chỉ: 16A * Tên đường: Nguyễn Thị Minh Khai * Tỉnh / Thành phố: Hồ Chí Minh * Quận / Huyện / Thị xã: Quận 1 * Phường / Xã: Phường Đakao | Error message **CEM017** will be displayed under “Địa chỉ đầy đủ” textbox. |  |  |  |
| CH006 | Validate fields | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH002 except those values:   * Người chịu trách nhiệm chính: [sonnxse60727@fpt.edu.vn](mailto:sonnxse60727@fpt.edu.vn) | Error message **CEM020** will be displayed under “Người chịu trách nhiệm chính” textbox.  A link “Thêm mới người dùng” will be appeared next to error message. |  |  |  |
| CH007 | Validate fields | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH002 except:   * Người chịu trách nhiệm chính: [nguoila@yahoo.com](mailto:nguoila@yahoo.com) | Error message **CEM021** will be displayed under “Người chịu trách nhiệm chính” textbox.  A link “Thêm mới người dùng” will be appeared next to error message. |  |  |  |
| CH008 | Add new Account | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH007  2. Click “Thêm mới người dùng” link | Create Hospital User form will be appear |  |  |  |
| CH009 | Add new Account | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH007  2. Click “Thêm mới người dùng” link  3 Fill value in the form  4. Quit the form  5. Open the form again | The form must keep the value of the previous interaction. |  |  |  |
| CH010 | Add new Account | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH007  2. Click “Thêm mới người dùng” link  3 Fill the same valid email value in “Email chính” and “Email phụ” textox | Error message **CEM025** will be displayed |  |  |  |
| CH011 | Add new Account | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH007  2. Click “Thêm mới người dùng” link  3 Fill in those field with according value:   * Email chính: dangkyuser1@gmail.com * Email phụ: [dangkyuser2@gmail.com](mailto:dangkyuser2@gmail.com) * Họ: Nguyễn Văn * Tên: A * Số điện thoại: 09134561234   4. Click “Xác nhận” button | The form will be submit successfully, new Hospital User account will be created |  |  |  |
| CH012 | Validate fields | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH002 except those values:   * Giờ khám ngày thường: 07:00 – 25:00 * Giờ khám ngày lễ và cuối tuần: 08:00 – 17:00 | Error message **CEM023** will be displayed under “Giờ khám ngày thường” textbox |  |  |  |
| CH013 | Validate fields | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH002 except those values:   * Giờ khám ngày thường: 07:00 – 17:00 * Giờ khám ngày lễ và cuối tuần: 08:00 – 07:00 | Error message **CEM023** will be displayed under “Giờ khám ngày lễ và cuối tuần” textbox |  |  |  |
| CH014 | Validate fields | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH002 except those values:   * Giờ khám ngày thường: 07:00 – 17:00 * Giờ khám ngày lễ và cuối tuần: 08:00 – 18:90 | Error message **CEM023** will be displayed under “Giờ khám ngày lễ và cuối tuần” textbox |  |  |  |
| CH015 | Validate fields | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH002 except those values:   * Giờ khám ngày thường: AA:BB – CC:DD * Giờ khám ngày lễ và cuối tuần: aa:bb – cc:dd | Cannot type non-numeric characters to those fields |  |  |  |
| CH016 | Validate fields | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Click drop zone  2. Choose an Microsoft Excel or Microsoft Word file in local directory  3. Click “Ok” button to upload | Dropzone prevent un-picture format file to be uploaded |  |  |  |
| CH017 | Validate fields | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Click drop zone  2. Choose more than 10 pictures files  3. Click “Ok” button to upload | Dropzone only accept 10 pictures to be uploaded |  |  |  |
| CH18 | Validate field | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Open photo folder in local directory  2. Drag the photos you want to upload to drop zone  3. Release the mouse | Dropzone will display thumbnail chosen pictures |  |  |  |
| CH19 | Validate field | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH002  2. Pay attention to “Địa chỉ đầy đủ” textbox | “Địa chỉ đầy đủ” textbox is the combined value of “Số địa chỉ”, “Tên đường”, “Tỉnh / Thành phố”, “Quận / Huyện / Thị xã”, “Phường / Xã” |  |  |  |
| CH20 | Validate field | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Choose a value in “Danh sách chuyên ngành”, “Danh sách dịch vụ” or “Danh sách cơ sở vật chất” drop down list | Selected value is not appeared in selectable drop down field |  |  |  |
| CH021 | Add new Hospital | Access the system at the address: <http://localhost:18303/Hospital/AddHospital> | 1. Prepare data as test case CH002  2. Choose a specific location on Google map  3. Click “Xác nhận” button | The form will be submitted successfully. New hospital will be created. |  |  |  |

* 1. **Create Hospital User’s Account**
  2. **View Hospital Information**
  3. **Search Doctor <GU> <US>**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Pre-Conditions** | **Test Case Procedure** | **Expected Output** | **Result** | **Test Date** | **Note** |
| SD001 | Search doctor by name | N/A | 1. On hospital home page, click on “Các bác sĩ” button  2. Fill in search name text box:   * Tên bác sĩ: nguyễn   3. Click “Tìm kiếm” | After step 3, list of doctor has full name contains word “nguyễn” is displayed which includes:   * Hình ảnh * Họ tên * Bằng cấp/Chứng chỉ * Kinh nghiệm * Ngày làm việc * Đặt lịch khám |  |  |  |
| SD002 | Search list of doctor by speciality | N/A | 1. On hospital home page, click on “Các bác sĩ” button  2. Fill in search text box:   * Chuyên khoa   3. Click “Tìm kiếm” | After step 3, list of doctor has the same speciality with selected one in search box is displayed which includes:   * Hình ảnh * Họ tên * Bằng cấp/Chứng chỉ * Kinh nghiệm * Ngày làm việc * Đặt lịch khám |  |  |  |
| SD003 | Search list of doctor by name and speciality | Login into the system by hospital user account | 1. On hospital user home page, click on “Các bác sĩ” button  2. Fill in search text box:   * Tên bác sĩ: nguyễn * Chuyên khoa   3. Click “Tìm kiếm” | After step 3, list of doctor has full name contains word “nguyễn” and the same speciality with selected one in search box is displayed which includes:   * Hình ảnh * Họ tên * Bằng cấp/Chứng chỉ * Kinh nghiệm * Ngày làm việc * Đặt lịch khám |  |  |  |

* 1. **Create Appointment Online**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Pre-Conditions** | **Test Case Procedure** | **Expected Output** | **Result** | **Test Date** | **Note** |
| CA001 | Guest creates appointment online | Hospital has health care insurance service. | 1. On hospital page, click on “Đặt lịch hẹn”.  2. Fill in appointment detail:   * Họ tên * Ngày sinh * Giới tính * Email * Số điện thoại * Mã BHYT (nếu có) * Chuyên khoa * Bác sĩ * Ngày khám * Giờ khám * Mô tả triệu chứng   2. Click “Đặt lịch khám” button | After step 1, created appointment page will be displayed.  After step 2, an appointment will be inserted into database, but not sync to calendar.   * An SMS message which contains confirmed code is sent to patient’s phone number. * Redirect to confirm page.   + Notification displays with message “Mã xác nhận cuộc hẹn được gửi đến số điện thoại [patient phone number]. Vui lòng kiểm tra tin nhắn” |  |  |  |
| CA002 | Confirm appointment | CA002 is successful. | 1. Fill confirm code in textbox field  2. Click “Xác nhận” button | After step 2, appointment which was created in test case CA002 is active and sync to calendar of hospital user account.  Notification displays with message “Cuộc hẹn được tạo thành công. Vui lòng đến khám đúng hẹn.” |  |  |  |
| CA003 | Guest creates appointment online by choosing doctor from doctor list | Test case SD002 is successful.  Hospital has not health care insurance service. | 1. On doctor list, click on “Đặt lịch hẹn” link at the end of row  2. Fill in appointment detail:   * Họ tên * Ngày sinh * Giới tính * Email * Số điện thoại * Ngày khám * Giờ khám * Mô tả triệu chứng   3. Click “Đặt lịch khám” button | After step 1, created appointment page is displayed which includes:   * Chuyên khoa: with default value is selected speciality in search doctor page. * Bác sĩ: with default value is selected doctor name in doctor result list.   After step 3, an appointment will be inserted into database, but not sync to calendar.   * An SMS message which contains confirmed code is sent to patient’s phone number. * Redirect to confirm page.   + Notification displays with message “Mã xác nhận cuộc hẹn được gửi đến số điện thoại [patient phone number]. Vui lòng kiểm tra tin nhắn” |  |  |  |
| CA004 | User creates appointment online | Guest login into the system with social account (facebook account).  Hospital has not health care insurance service.  Test case “Search Doctor” by speciality is successful. | 1. On hospital page, click on “Đặt lịch hẹn”.  2. Fill in appointment detail:   * Ngày sinh * Giới tính * Số điện thoại * Mã BHYT (nếu có) * Ngày khám * Giờ khám * Mô tả triệu chứng   2. Click “Đặt lịch khám” button | After step 1, created appointment page is displayed which includes:   * Họ tên: get name of facebook * Email: get email from facebook * Chuyên khoa: with default value is selected speciality in search doctor page. * Bác sĩ: with default value is selected doctor name in doctor result list.   After step 3, an appointment will be inserted into database, but not sync to calendar.   * An SMS message which contains confirmed code is sent to patient’s phone number. * Redirect to confirm page.   + Notification displays with message “Mã xác nhận cuộc hẹn được gửi đến số điện thoại [patient phomenumber]. Vui lòng kiểm tra tin nhắn” |  |  |  |
| CA005 | Confirm appointment | CA004 is successful. | 1. Fill confirm code in textbox field  2. Click “Xác nhận” button | After step 2, appointment which was created in test case CA002 is active and sync to calendar of hospital user account.  Notification displays with message “Cuộc hẹn được tạo thành công. Vui lòng đến khám đúng hẹn.” |  |  |  |

* 1. **Cancel Appointment**
  2. **Feedback**

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| **ID** | **Test Case Description** | **Pre-Conditions** | **Test Case Procedure** | **Expected Output** | **Result** | **Test Date** | **Note** |
| FB001 | Guest chooses feedback type | N/A | 1. On homepage, click on “Phản hồi” button  2. Fill in feedback detail:   * Loại ý kiến: Nội dung không phù hợp or Thông tin không chính xác   3. Fill in feedback detail:   * Loại ý kiến: Góp ý phát triển hệ thống | After step 2, Hospital name dropdown list field is enabled below feedback type field.  After step 3, enabled Hospital name dropdown list field is disabled. |  |  |  |
| FB002 | Guest create feedback about system | N/A | 1. On homepage, click on “Phản hồi” button  2. Fill in feedback detail:   * Loại ý kiến: Nội dung không phù hợp * Bệnh viện/phòng khám * Email * Tiêu đề   Nội dung  3. Click “Gửi” button | After step 3, feedback will be insert into database   * Notification displays with message “Cảm ơn ý kiến phản hồi của bạn” * Redirect to home page. |  |  |  |
| FB003 | User creates feedback about system | Guest logins into system by social account (Facebook account) | 1. On homepage, click on “Phản hồi” button  2. Fill in feedback detail:   * Loại ý kiến: Vấn đề khi sử dụng * Email * Tiêu đề * Nội dung   3. Click “Gửi” | After step 1, created feedback page is displayed which includes:   * Email: get email from facebook   After step 3, the feedback will be inserted into database.   * Notification displays with message “Cảm ơn ý kiến phản hồi của bạn” * Redirect to home page. |  |  |  |

* 1. **Rating Hosptial**
  2. **Add New Doctor**
  3. **Search List of Doctor <HU>**

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| **ID** | **Test Case Description** | **Pre-Conditions** | **Test Case Procedure** | **Expected Output** | **Result** | **Test Date** | **Note** |
| LD001 | Hospital user search list of doctor by name | Login into system by hospital user account | 1. On hospital user home page, click on “Các bác sĩ” button  2. Fill in search name text box:   * Tên bác sĩ: nguyễn   3. Click “Tìm kiếm” | After step 3, list of doctor has full name contains word “nguyễn” is displayed which includes:   * Hình ảnh * Họ tên: is a hyperlink which link to Doctor detail page * Bằng cấp/Chứng chỉ * Kinh nghiệm * Ngày làm việc |  |  |  |
| LD002 | Hospital user search list of doctor by speciality | Login into system by hospital user account | 1. On hospital user home page, click on “Các bác sĩ” button  2. Fill in search text box:   * Chuyên khoa   3. Click “Tìm kiếm” | After step 3, list of doctor has the same speciality with selected one in search box is displayed which includes:   * Hình ảnh * Họ tên: is a hyperlink which link to Doctor detail page * Bằng cấp/Chứng chỉ * Kinh nghiệm * Ngày làm việc |  |  |  |
| LD003 | Hospital user search list of doctor by name and speciality | Login into the system by hospital user account | 1. On hospital user home page, click on “Các bác sĩ” button  2. Fill in search text box:   * Tên bác sĩ: nguyễn * Chuyên khoa   3. Click “Tìm kiếm” | After step 3, list of doctor has full name contains word “nguyễn” and the same speciality with selected one in search box is displayed which includes:   * Hình ảnh * Họ tên: is a hyperlink which link to Doctor detail page * Bằng cấp/Chứng chỉ * Kinh nghiệm * Ngày làm việc |  |  |  |

* 1. **Search List of Hospital <AD>**
  2. **Update Doctor Information**
  3. **Upload Photo**
  4. **Update Hospital Information**

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| **ID** | **Test Case Description** | **Pre-Conditions** | **Test Case Procedure** | **Expected Output** | **Result** | **Test Date** | **Note** |
| TC001 | Hospital user updates hospital information | 1. Login into the system using a hospital user account. 2. On hospital user home page, click on “Thông tin bệnh viện” on left menu. | 1. On hospital information screen, click on “Cập nhật” button. 2. Fill in “Cập nhật thông tin bệnh viện” form:  * “Thông tin cơ bản” part. * “Địa chỉ” part. * “Thông tin liên lạc” part. * “Thông tin chuyên môn” part.  1. Click “Xác nhận” button | * After step 1, hospital information page which contains input fields is displayed. * After step 3, new information will be updated into database.   + Notification display with message “Thông tin của [Hospital Name] được cập nhật thành công!”   + An email that contains all updated parts will be sent to administrator email |  |  |  |
| TC002 | Hospital user updates hospital’s full description. | 1. Login into the system using a hospital user account. 2. On hospital user home page, click on “Thông tin bệnh viện” on left menu. | 1. On hospital information screen, click on “Cập nhật” button. 2. Click on “Thay đổi thông tin bệnh viện” button. 3. Fill in “Thông tin bệnh viện” form. 4. Click on “Lưu” button. 5. Click on “Xác nhận” button | * After step 1, hospital information page which contains input fields is displayed. * After step 2, input text screen display. * After step 4, hospital’s full description will be save draft.   + Notification display with message “Lưu thông tin thành công” * After step 5, hospital’s full description will be updated into database.   + Notification display with message “Thông tin của [Hospital Name] được cập nhật thành công!”   + An email that contains all updated parts will be sent to administrator email |  |  |  |
| TC003 | Admin updates hospital information | 1. Login into the system using an admin account. 2. On admin home page, search a hospital that wants to update information | 1. Click on hospital name link. 2. Click on “Cập nhật” button. 3. Fill in “Cập nhật thông tin bệnh viện” form:  * “Thông tin cơ bản” part. * “Địa chỉ” part. * “Thông tin liên lạc” part. * “Thông tin chuyên môn” part.  1. Click on “Thay đổi thông tin bệnh viện” button. 2. Fill in “Thông tin bệnh viện” form. 3. Click on “Lưu” button. 4. Click on “Xác nhận” button | * After step 1, hospital information detail is displayed. * After step 2, hospital information page which contains input fields is displayed. * After step 4, input text screen display. * After step 6, hospital’s full description will be updated into database.   + Notification display with message “Thông tin của [Hospital Name] được cập nhật thành công!” * After step 7, hospital’s full description will be save draft.   + Notification display with message “Lưu thông tin thành công”   + An email that contains all updated parts will be sent to hospital user’s email |  |  |  |

* 1. **View List of Appointments**

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| **ID** | **Test Case Description** | **Pre-Conditions** | **Test Case Procedure** | **Expected Output** | **Result** | **Test Date** | **Note** |
| LA001 | Hospital user view list of appointment in google calendar | Login into gmail.com by gmail which was registered in system | 1. On gmail homepage, click on “Calendar” button. | After step 1, calendar displays which list of appointment which includes:   * Start and end time * Patient fullname * Speciality * Doctor name and prognostic description |  |  |  |

* 1. **View Hospital Statistics**

1. **Checklists**

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| **No.** | **Question** | **Test Status** |
| 1 | Check the maximum field lengths to ensure that there are no truncated characters? | Passed |
| 2 | Where the database requires a value (other than null) then this should be defaulted into fields. | Passed |
| 3 | The user must either enter an alternative valid value or leave the default value intact. | Passed |
| 4 | If a set of radio buttons represent a fixed set of values such as A, B and C then what happens if a blank value is retrieved from the database? | Passed |
| 5 | If a particular set of data is saved to the database check that each value gets saved fully to the database. | Passed |
| 6 | Does a failure of validation on every field cause a sensible user error message? | Passed |
| 7 | Is the user required to fix entries, which have failed validation tests? | Passed |
| 8 | Have any fields got multiple validation rules and if so are all rules being applied? | Passed |
| 9 | If the user enters an invalid value and clicks on the OK, is the invalid entry identified and highlighted correctly with an error message? | Passed |
| 10 | Is validation consistently applied at screen level unless specifically required at field level? | Passed |
| 11 | For all numeric fields check whether negative numbers can and should be able to be entered. | Passed |
| 12 | For all numeric fields check the minimum and maximum values and also some mid-range values allowable? | Passed |
| 13 | For all character/alphanumeric fields check the field to ensure that there is a character limit specified and that this limit is exactly correct for the specified database size? | Passed |
| 14 | Do all mandatory fields require user input? | Passed |
| 15 | If any of the database columns don’t allow null values then the corresponding screen fields must be mandatory. (If any field which initially was mandatory has become optional then check whether null values are allowed in this field.) | Passed |