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| Test Case Matrix | | | | | |
| Test Case No | Test Case Name | Input | Expected Outcome | Actual Outcome | Result (Pass/Fail) |
| 1 | Login | Username and Password (String && String) | Redirect(consultantHomePage || adminHomePage) | Render(medicalProfile.scala.html) | Pass |
| 2 | Login | Username and Password (!String) | Flash(Invalid Username or Password) | Flash(Invalid Username or Password) | Pass |
| 3 | Login | Username and Password (Invalid) | Flash(Invalid Username or Password) | Flash(Invalid Username or Password) | Pass |
| 4 | Login | Username and Password (String && String) | Render(medicalProfile.scala.html) |  |  |
| Admin | | |  |  |  |
| 1 | Change Patient Details | Form(fName, lName, address, nokFname, nokLname, noAddress or email left blank) | Flash(“Email, First Name and Last Name cannot be blank.”) | Flash(“Email, First Name and Last Name cannot be blank.”) | Pass |
| 2 | Change Patient Details | Form(number entered for fName, lName, illness, nokFname or nokLname) | Flash(“ Illness, First Name and Last Name cannot contain numbers.”) | Render(searchPatient.scala.html)/ Patient info updated | Fail |
| 3 | Change Patient Details | Form(text entered for homePhone, mobilePhone or nokContactNumber) | Flash(“ Phone numbers cannot contain letters.”) | Render(searchPatient.scala.html)/ Patient info updated | Fail |
| 4 | Change Patient Details | Form(homePhone, mobileNum or nokNum entered with less than 5 digits) | Flash(“Phone number entered is too short.”) | Render(searchPatient.scala.html)/ Patient info updated | Fail |
| 5 | Change Patient Details | Form(email entered without ‘@’ symbol) | Flash(“ Invalid email entered.”) | Render(searchPatient.scala.html)/ Patient info updated | Fail |
| 6 | Change Patient Details | Form(homePhone, mobileNum or nokNum left blank) | Flash(“Must enter Home Phone, Mobile Phone, and Contact number”) | Render(searchPatient.scala.html)/ Patient info updated | Fail |
| 7 | Change Patient Details | Form(homePhone, mobileNum or nokNum left blank) | Flash(“Must enter Home Phone, Mobile Phone, and Contact number”) | Render(searchPatient.scala.html)/ Patient info updated | Fail |
| 8 | Change Patient Details | Form(PPS number entered greater than 9 or less than 8 digits long) | Flash(“PPS number must be 8 or 9 digits long, please try again”) | Render(searchPatient.scala.html)/ Patient info updated | Fail |
| 9 | Change Patient Details | Form(PPS number entered not ending in a letter) | Flash(“PPS number must end with a letter”) | Render(searchPatient.scala.html)/ Patient info updated | Fail |
| 10 | Change Patient Details | Form(PPS number entered which already exists on the system) | Flash(“Another patient with same PPS.”) | Flash(“Another patient with same PPS.”) | Pass |
| 11 | Change Patient Details | Form(dob entered after today’s date) | Flash(“Invalid Date of Birth entered”) | Flash(“Invalid Date of Birth entered”) | Pass |
| 12 | Change Patient Details | Form(dob not entered as yyyy-dd-mm) | Flash(“Error with date. Must be yyyy-dd-MM”) | Flash(“Error with date. Must be yyyy-dd-MM”) | Pass |
| 13 | Change Patient Details | Form(PPS number entered with first 7 digits as text) | Flash(“Invalid PPS number entered”) | Flash(“Invalid PPS number entered”) | Pass |
| 14 | Change Patient Details | Form(All details entered correctly) | Render(searchPatient.scala.html)/ Patient info updated | Render(searchPatient.scala.html)/ Patient info updated | Pass |
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| 1 | Search Patient By MRN | Mrn(String) | Return ok(searchPatient.scala.html) Displaying correct patient | Return ok(searchPatient.scala.html) Displaying correct patient | pass |
| 2 | Search Patient By MRN | Mrn(String) (Invalid MRN) | Return ok(searchPatient.scala.html) Displaying “No Patient Found” | Return ok(searchPatient.scala.html) Displaying “No Patient Found” | pass |
| 3 | Search Patient By LastName | lname (String) | Return ok(searchPatient.scala.html) Displaying correct patient | Return ok(searchPatient.scala.html) Displaying correct patient | Pass |
| 4 | Search Patient By LastName | lname (String) (Invalid lName) | Return ok(searchPatient.scala.html) Displaying “No Patient Found” | Return ok(searchPatient.scala.html) Displaying “No Patient Found” | pass |
| 5 | Search Patient Archive By MRN | Mrn(String) before archiving a patient | Return ok(searchPatient.scala.html) Displaying “No Patient Found” | Return ok(searchPatient.scala.html) Displaying “No Patient Found” | pass |
| 6 | Search Patient Archive By MRN | Mrn(String) (Invalid MRN) | Return ok(searchPatient.scala.html) Displaying “No Patient Found” | Return ok(searchPatient.scala.html) Displaying “No Patient Found” | pass |
| 7 | Search Patient Archive By MRN | Mrn(String) after archiving a patient | Return ok(searchPatient.scala.html) Displaying correct patient | Return ok(searchPatient.scala.html) Displaying correct patient | pass |
| 8 | Search Patient Archive By MRN | Mrn(String) after archiving two patients | Return ok(searchPatient.scala.html) Displaying correct patient | Null pointer exception | fail |
| 9 | Search Patient Archive By MRN | Mrn(String) | All composing objects of Patient inserted back into database | Only one object for prescription, appointment and chart | Fail |
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| 1 | Make Appointment | Form(default values) | Flash(“Please enter a consultant.”) | Flash(“Please enter a consultant.”) | pass |
| 2 | Make Appointment | Form(Consultant chosen only) | Flash(“Please enter a date and time”) | Flash(“Please enter a date and time”) | pass |
| 3 | Make Appointment | Form(Equipment not chosen) | Flash(“Please select an equipment type”) | Flash(“Please select an equipment type”) | pass |
| 4 | Make Appointment | Form(Date and time before today’s date and time chosen) | Flash(“Cannot create an appointment in the past”) | Flash(“Cannot create an appointment in the past”) | pass |
| 5 | Make Appointment | Form(Date and time chosen which consultant already has an appointment at) | Flash(“Consultant already has an appointment at that time”) | Flash(“Consultant already has an appointment at that time”) | pass |
| 6 | Make Appointment | Form(Date and time chosen which equipment already has an appointment at) | Flash(“Equipment is already booked at that time”) | Flash(“Equipment is already booked at that time”) | pass |
| 7 | Make Appointment | Form(All values entered correctly) | Write to LogFile and save new appointment to database | Logfile written and appointment saved to database | pass |
|  |  |  |  |  |  |
| 1 | Add Patient | Form(fName, lName, address, nokFname, nokLname, noAddress or email left blank) | Flash(“Email, First Name and Last Name cannot be blank.”) | Flash(“Email, First Name and Last Name cannot be blank.”) | pass |
| 2 | Add Patient | Form(number entered for fName, lName, illness, nokFname or nokLname) | Flash(“ Illness, First Name and Last Name cannot contain numbers.”) | Flash(“ Illness, First Name and Last Name cannot contain numbers.”) | pass |
| 3 | Add Patient | Form(text entered for homePhone, mobilePhone or nokContactNumber) | Flash(“ Phone numbers cannot contain letters.”) | Flash(“ Phone numbers cannot contain letters.”) | pass |
| 4 | Add Patient | Form(homePhone, mobileNum or nokNum entered with less than 5 digits) | Flash(“Phone number entered is too short.”) | Flash(“Phone number entered is too short.”) | pass |
| 5 | Add Patient | Form(email entered without ‘@’ symbol) | Flash(“ Invalid email entered.”) | Flash(“ Invalid email entered.”) | pass |
| 6 | Add Patient | Form(homePhone, mobileNum or nokNum left blank) | Flash(“Must enter Home Phone, Mobile Phone, and Contact number”) | Flash(“Must enter Home Phone, Mobile Phone, and Contact number”) | pass |
| 7 | Add Patient | Form(PPS number entered greater than 9 or less than 8 digits long) | Flash(“PPS number must be 8 or 9 digits long, please try again”) | Flash(“PPS number must be 8 or 9 digits long, please try again”) | pass |
| 8 | Add Patient | Form(PPS number entered not ending in a letter) | Flash(“PPS number must end with a letter”) | Flash(“PPS number must end with a letter”) | pass |
| 9 | Add Patient | Form(PPS number entered which already exists on the system) | Flash(“Another patient with same PPS.”) | Flash(“Another patient with same PPS.”) | pass |
| 10 | Add Patient | Form(dob entered after today’s date) | Flash(“Invalid Date of Birth entered”) | Flash(“Invalid Date of Birth entered”) | pass |
| 11 | Add Patient | Form(dob not entered as yyyy-dd-mm) | Flash(“Error with date. Must be yyyy-dd-MM”) | Flash(“Error with date. Must be yyyy-dd-MM”) | pass |
| 12 | Add Patient | Form(PPS number entered with first 7 digits as text) | Flash(“Invalid PPS number entered”) | Flash(“Invalid PPS number entered”) | pass |
| 13 | Add Patient | Form(All values entered correctly) | Redirect(searchPatient.scala.html) flash(“Patient was added successfully”) | Redirect(searchPatient.scala.html) flash(“Patient was added successfully”) | pass |
| Consultant | | |  |  |  |
| 1 | Admit Patient | Form(Default Values) | Flash(“Please enter a ward”) | Flash(“Please enter a ward”) | pass |
| 2 | Admit Patient | Form(Ward chosen only) | Flash(“Please enter a meal plan”) | Flash(“Please enter a meal plan”) | pass |
| 3 | Admit Patient | Form(Both values chosen) | Redirect(viewPatient.scala.html) Flash(Patient admitted to ward) | Redirect(viewPatient.scala.html) Flash(Patient admitted to ward) | pass |
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| 1 | Add Prescription | Form(Default Values) | Flash(“Must choose medicine”) | Flash(“Must choose medicine”) | pass |
| 2 | Add Prescription | Form(Medicine chosen only) | Flash(“Please select a dosage”) | Flash(“Dosage must contain numbers only”) | Pass |
| 3 | Add Prescription | Form(Frequency only left blank) | Flash(“Please enter how the medicine should be taken”) | Flash(" Must enter the dosage and how often patient is to take medicine”) | pass |
| 4 | Add Prescription | Form(Dosage entered as text) | Flash(“Dosage must be represented by numbers”) | Flash(“Dosage must be represented by numbers”) | pass |
| 5 | Add Prescription | Form( All values entered correctly) | Redirect(viewPatient.scala.html) Flash(“Prescription written for patient”) | Redirect(viewPatient.scala.html) Flash(“Prescription written for patient”) | pass |
|  |  |  |  |  |  |
| 1 | Reschedule Appointment | Form(Default Values) | Flash(“Date was not chosen. Appointment has not been rescheduled”) | Flash(“Date was not chosen. Appointment has not been rescheduled”) | pass |
| 2 | Reschedule Appointment | Form(Date and time before today’s date and time chosen) | Flash(“Cannot create an appointment in the past”) | Flash(“Cannot create an appointment in the past”) | pass |
| 3 | Reschedule Appointment | Form(Date and time chosen which consultant already has an appointment at) | Flash(“Consultant already has an appointment at that time”) | Flash(“Consultant already has an appointment at that time”) | pass |
| 4 | Reschedule Appointment | Form(Date and time chosen which equipment already has an appointment at) | Flash(“Equipment is already booked at that time”) | Flash(“Equipment is already booked at that time”) | pass |
| 5 | Reschedule Appointment | Form(Correct values entered) | Redirect(appointmentMain.scala.html) | Redirect(appointmentMain.scala.html) | pass |
| Chief Admin | | |  |  |  |
| 1 | Add Chief Admin | Form(Default Values) | Flash(“Must enter an email address”) | Flash(“Must enter an email address”) | Pass |
| 2 | Add Chief Admin | Form(Email only) | Flash(“Password was blank”) | Flash(“Password was blank”) | Pass |
| 3 | Add Chief Admin | Form(Password do not match) | Flash(“Passwords did not match”) | Flash(“Passwords did not match”) | pass |
| 4 | Add Chief Admin | Form(correct values entered) | Redirect(index.scala.html) flash (“Chief admin created. Please log in”) | Redirect(index.scala.html) flash (“Chief admin created. Please log in”) | pass |
|  |  |  |  |  |  |
| 1 | Add User | Form(Default Values) | Flash(" Please enter an email and name.”) | Flash(" Please enter an email and name.”) | Pass |
| 2 | Add User | Form(number entered for fName, lName) | Flash(“Name cannot contain numbers.”) | Flash(“Name cannot contain numbers.”) | pass |
| 3 | Add User | Form(text entered for phoneNumber) | Flash(“ Phone number cannot contain letters.”) | Flash(“ Phone number cannot contain letters.”) | pass |
| 5 | Add User | Form(email entered without ‘@’ symbol) | Flash(“ Invalid email entered.”) | Flash(“ Invalid email entered.”) | pass |
| 6 | Add User | Form(any value left blank) | Flash(“Please fill all fields in the form”) | Flash(“Must enter Home Phone, Mobile Phone, and Contact number”) | pass |
| 8 | Add User | Form(PPS number entered greater than 9 or less than 8 digits long) | Flash(“PPS number must be 8 or 9 digits long, please try again”) | Flash(“PPS number must be 8 or 9 digits long, please try again”) | pass |
| 9 | Add User | Form(PPS number entered not ending in a letter) | Flash(“PPS number must end with a letter”) | Flash(“PPS number must end with a letter”) | pass |
| 10 | Add User | Form(PPS number entered which already exists on the system) | Flash(“Another patient with same PPS.”) | Flash(“Another patient with same PPS.”) | pass |
| 11 | Add User | Form(dob entered after today’s date) | Flash(“Invalid Date of Birth entered”) | Flash(“Invalid Date of Birth entered”) | pass |
| 12 | Add User | Form(dob not entered as yyyy-dd-mm) | Flash(“Error with date. Must be yyyy-dd-MM”) | Flash(“Error with date. Must be yyyy-dd-MM”) | pass |
| 13 | Add User | Form(PPS number entered with first 7 digits as text) | Flash(“Invalid PPS number entered”) | Flash(“Invalid PPS number entered”) | pass |
| 14 | Add User | Form(All values entered correctly) | Redirect(viewUsers.scala.html) flash(“User was added successfully”) | Redirect(viewUsers.scala.html) flash(“User was added successfully”) | pass |
|  |  |  |  |  |  |
| 1 | Update User | Form(Default Values) | Flash(" Please enter an email and name.”) | Flash(" Please enter an email and name.”) | Pass |
| 2 | Update User | Form(number entered for fName, lName) | Flash(“Name cannot contain numbers.”) | Flash(“Name cannot contain numbers.”) | pass |
| 3 | Update User | Form(text entered for phoneNumber) | Flash(“ Phone number cannot contain letters.”) | Flash(“ Phone number cannot contain letters.”) | pass |
| 5 | Update User | Form(email entered without ‘@’ symbol) | Flash(“ Invalid email entered.”) | Flash(“ Invalid email entered.”) | pass |
| 6 | Update User | Form(any value left blank) | Flash(“Please fill all fields in the form”) | Flash(“Must enter Home Phone, Mobile Phone, and Contact number”) | pass |
| 8 | Update User | Form(PPS number entered greater than 9 or less than 8 digits long) | Flash(“PPS number must be 8 or 9 digits long, please try again”) | Flash(“PPS number must be 8 or 9 digits long, please try again”) | pass |
| 9 | Update User | Form(PPS number entered not ending in a letter) | Flash(“PPS number must end with a letter”) | Flash(“PPS number must end with a letter”) | pass |
| 10 | Update User | Form(PPS number entered which already exists on the system) | Flash(“Another patient with same PPS.”) | Flash(“Another patient with same PPS.”) | pass |
| 11 | Update User | Form(dob entered after today’s date) | Flash(“Invalid Date of Birth entered”) | Flash(“Invalid Date of Birth entered”) | pass |
| 12 | Update User | Form(dob not entered as yyyy-dd-mm) | Flash(“Error with date. Must be yyyy-dd-MM”) | Flash(“Error with date. Must be yyyy-dd-MM”) | pass |
| 13 | Update User | Form(PPS number entered with first 7 digits as text) | Flash(“Invalid PPS number entered”) | Flash(“Invalid PPS number entered”) | pass |
| 14 | Update User | Form(All values entered correctly) | Redirect(viewUsers.scala.html) flash(“ has been updated. ”) | Redirect(viewUsers.scala.html) flash(“ has been updated.”) | pass |
|  |  |  |  |  |  |
| 1 | Add Medicine | Form (Default Values) | Flash(“All fields must be filled”) | Flash(“All fields must be filled”) | pass |
| 2 | Add Medicine | Form(Name or ingredients entered as number) | Flash(“Invalid values entered”) | Flash(“Name cannot be a number”) | pass |
| 3 | Add Medicine | Form(Price entered as 0 or negative value) | Flash(“Price cannot be negative or zero”) | Flash(“Price cannot be negative or zero”) | pass |
| 4 | Add Medicine | Form(Text entered in price) | Flash(“Invalid Price entered”) | Flash(“Invalid Price entered”) | pass |
| 5 | Add Medicine | Form(All values entered Correctly) | Redirect(viewMedication.scala.html) Flash(“Medication added”) | Redirect(viewMedication.scala.html) Flash(“Medication added”) | pass |
|  |  |  |  |  |  |
| 1 | Update Medicine | Form (Default Values) | Redirect(viewMedication.scala.html) Flash(“Medication Updated”) | Redirect(viewMedication.scala.html) Flash(“Medication Updated”) | pass |
| 2 | Update Medicine | Form(Name or ingredients entered as number) | Flash(“Invalid values entered”) | Flash(“Name cannot be a number”) | pass |
| 3 | Update Medicine | Form(Price entered as 0 or negative value) | Flash(“Price cannot be negative or zero”) | Flash(“Price cannot be negative or zero”) | pass |
| 4 | Update Medicine | Form(Text entered in price) | Flash(“Invalid Price entered”) | Flash(“Invalid Price entered”) | pass |
| 5 | Update Medicine | Form(All values entered Correctly) | Redirect(viewMedication.scala.html) Flash(“Medication Updated”) | Redirect(viewMedication.scala.html) Flash(“Medication Updated”) | pass |
|  |  |  |  |  |  |
| 1 | Add ward | Form(Default Values) | Flash(“All fields must be entered”) | Flash(“All fields must be entered”) | pass |
| 2 | Add Ward | Form(name left blank) | Flash(“Cannot leave name blank”) | Flash(“All fields must be entered”) | Pass |
| 3 | Add Ward | Form(max capacity left blank) | Flash(“Cannot leave capacity blank”) | Flash(“Invalid number entered”) | pass |
| 4 | Add Ward | Form(capacity set as negative number) | Flash(“Capacity cannot be set as 0 or negative number”) | Flash(“Capacity cannot be set as 0 or negative number”) | pass |
| 5 | Add Ward | Form(Name entered as number) | Flash(“Ward name cannot contain numbers”) | Flash(“Ward name cannot contain numbers”) | pass |
| 6 | Add Ward | Form(All values entered correctly) | Redirect(createWard.scala.view) Flash(“Ward was created successfully”) | Redirect(createWard.scala.view) Flash(“Ward was created successfully”) | pass |
|  |  |  |  |  |  |
| 1 | Update ward | Form(Default Values) | Redirect(createWard.scala.view) Flash(“Ward was updated successfully”) | Redirect(createWard.scala.view) Flash(“Ward was updated successfully”) | pass |
| 2 | Update ward | Form(name left blank) | Flash(“Cannot leave name blank”) | Flash(“All fields must be entered”) | Pass |
| 3 | Update ward | Form(max capacity left blank) | Flash(“Cannot leave capacity blank”) | Flash(“Invalid number entered”) | pass |
| 4 | Update ward | Form(capacity set as negative number) | Flash(“Capacity cannot be set as 0 or negative number”) | Flash(“Capacity cannot be set as 0 or negative number”) | pass |
| 5 | Update ward | Form(Name entered as number) | Flash(“Ward name cannot contain numbers”) | Flash(“Ward name cannot contain numbers”) | pass |
| 6 | Update ward | Form(All values entered correctly) | Redirect(createWard.scala.view) Flash(“Ward was updated successfully”) | Redirect(createWard.scala.view) Flash(“Ward was updated successfully”) | pass |
|  |  |  |  |  |  |
| 1 | Add Equipment | Form(blank) | Flash(“Name cannot be blank”) | Flash(“Name cannot be blank”) | pass |
| 2 | Add Equipment | Form(Name entered as number) | Flash(“Name cannot contain numbers”) | Flash(“Name cannot contain numbers”) | pass |
| 3 | Add Equipment | Form(All values entered correctly) | Redirect(viewEquipment.scala.view) Flash(“Equipment created successfully”) | Redirect(viewEquipment.scala.view) Flash(“Equipment created successfully”) | pass |
|  |  |  |  |  |  |
| 1 | Update Equipment | Form(blank) | Redirect(viewEquipment.scala.view) Flash(“Equipment updated successfully”) | Redirect(viewEquipment.scala.view) Flash(“Equipment updated successfully”) | Pass |
| 2 | Update Equipment | Form(Name entered as number) | Flash(“Name cannot contain numbers”) | Flash(“Name cannot contain numbers”) | Pass |
| 3 | Update Equipment | Form(All values entered correctly) | Redirect(viewEquipment.scala.view) Flash(“Equipment updated successfully”) | Redirect(viewEquipment.scala.view) Flash(“Equipment updated successfully”) | Pass |