

Test Case #	Requirement	Test Description & Input Data	Expected Result/Output
1	Scheduling or canceling an appointment (first tab) when some data fields are left blank should return an error pop-up	<ul style="list-style-type: none"> <i>Schedule an appointment where timeslot is left blank</i> test input: <u>Provider File Input</u> providers.txt <u>Schedule Input:</u> Appointment Type: Office Visit Appointment Date: 1/1/2025 Appointment Timeslot: NULL Provider: RACHAEL LIM Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006	Error: Invalid Input "Missing Data Tokens"
2	Scheduling or canceling an appointment (first tab) with invalid dates entered for either the appointment date or dob should result in an error pop-up	<ul style="list-style-type: none"> <i>Appointment date entered is invalid as it is before today's date</i> test input: <u>Provider File Input</u> providers.txt <u>Schedule Input:</u> Appointment Type: Office Visit Appointment Date: 10/27/2024 Appointment Timeslot: 10:00 AM Provider: RACHAEL LIM Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006	Error: Invalid Input "Appointment Date Is Invalid"
3	Scheduling an appointment with a provider that is not available at the specific time slot and date should result in an error pop-up	<ul style="list-style-type: none"> <i>Schedule an appointment at a date and time slot in which the provider already has another appointment scheduled</i> test input: <u>Provider File Input</u> providers.txt <u>Schedule Input 1</u> Appointment Type: Office Visit Appointment Date: 10/27/2024 Appointment Timeslot: 10:00 AM Provider: RACHAEL LIM	<u>Output 1</u> Appointment Scheduled "Appointment Type: Office Visit" <u>Output 2</u> Error: Invalid Input "Provider Not Available"

		<p>Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 2</u> Appointment Type: Office Visit Appointment Date: 10/27/2024 Appointment Timeslot: 10:00 AM Provider: RACHAEL LIM</p> <p>Patient First Name: Sarah Patient Last Name: Johnson Patient DOB: 10/20/2006</p>	
4	Trying to reschedule or cancel an appointment that does not exist should result in an error pop-up	<ul style="list-style-type: none">• <i>Reschedule an appointment when it does not exist in the appointment calendar</i>• test input: <p><u>Provider File Input</u> providers.txt</p> <p><u>Reschedule Input</u> Old Appointment Date: 1/15/2025 Old Appointment Timeslot: 11:00 AM New Appointment Timeslot: 11:30 AM Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006</p>	Error: Invalid Input “Appointment Does Not Exist”
5	Trying to schedule or reschedule an appointment where the patient is not available at the time slot should result in an error pop-up	<ul style="list-style-type: none">• <i>Rescheduling an appointment for a patient to a new timeslot in which they are not available (they have another appointment at the new timeslot date)</i>• test input: <p><u>Provider File Input</u> providers.txt</p> <p><u>Schedule Input 1</u> Appointment Type: Office Visit Appointment Date: 1/1/2025 Appointment Timeslot: 11:00 AM Provider: RACHAEL LIM Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 2</u> Appointment Type: Office Visit Appointment Date: 1/1/2025 Appointment Timeslot: 11:00 AM</p>	<p><u>Output 1</u> Appointment Scheduled “Appointment Type: Office Visit”</p> <p><u>Output 2</u> Error: Invalid Input “Patient Not Available”</p>

		Provider: ANDREW PATEL Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006	
6	Cannot schedule, cancel, or reschedule any appointments until provider text is loaded in	<ul style="list-style-type: none"><i>Schedule an imaging appointment when no provider text was loaded in yet will result in an error</i>test input: <p><u>Provider File Input</u> NULL</p> <p><u>Schedule Input</u> Appointment Type: Imaging Appointment Date: 1/1/2025 Appointment Timeslot: 11:00 AM Provider: CATSCAN Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006</p>	Error: Provider File Needed "Need to Upload List of Providers"
7	Trying to reschedule an appointment when there are no more available technicians for that date and time slot.	<ul style="list-style-type: none"><i>Scheduling ultrasound appointments until there are no more available technicians to perform ultrasound for that time slot.</i>test input: <p><u>Provider File Input</u> providers.txt</p> <p><u>Schedule Input 1</u> Appointment Type: Imaging Appointment Date: 1/1/2025 Appointment Timeslot: 11:00 AM Provider: ULTRASOUND Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 2</u> Appointment Type: Imaging Appointment Date: 1/1/2025 Appointment Timeslot: 11:00 AM Provider: ULTRASOUND Patient First Name: Sarah Patient Last Name: Johnson Patient DOB: 10/20/2006</p> <p><u>Schedule Input 3</u> Appointment Type: Imaging Appointment Date: 1/1/2025</p>	<p><u>Output 1</u> Appointment Scheduled "Appointment Type: Imaging Service"</p> <p><u>Output 2</u> Appointment Scheduled "Appointment Type: Imaging Service"</p> <p><u>Output 3</u> Error: Invalid Input "Technician Not Available"</p>

		Appointment Timeslot: 11:00 AM Provider: ULTRASOUND Patient First Name: Cooper Patient Last Name: Logan Patient DOB: 10/20/2006	
8	Trying to reschedule an imaging appointment should result in an error pop-up.	<ul style="list-style-type: none"><i>Scheduling an imaging appointment then attempting to reschedule that appointment with a new appointment time slot.</i>test input: <u>Schedule Input 1</u> Appointment Type: Imaging Appointment Date: 1/1/2025 Appointment Timeslot: 11:00 AM Provider: ULTRASOUND Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006 <u>Reschedule Input 2</u> Old Appointment Date: 1/1/2025 Old Appointment Timeslot: 11:00 AM New Appointment Timeslot: 11:30 AM Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006	<u>Output 1</u> Appointment Scheduled “Appointment Type: Imaging Service” <u>Output 2</u> Error: Invalid Input “Cannot Reschedule Imaging Appt”
9	Accurately display the provider credits for all providers.	<ul style="list-style-type: none"><i>Entering imaging and office appointments into the calendar should correctly calculate the associated provider credits and output it in the “View Provider Cred” tab</i>test input: <u>Schedule Input 1</u> Appointment Type: Office Visit Appointment Date: 1/1/2025 Appointment Timeslot: 10:00 AM Provider: RACHAEL LIM Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006 <u>Schedule Input 2</u> Appointment Type: Imaging Appointment Date: 1/1/2025 Appointment Timeslot: 2:30 PM Provider: ULTRASOUND Patient First Name: John Patient Last Name: Smith	<u>Output 1</u> Appointment Scheduled “Appointment Type: Office Visit” <u>Output 2</u> Appointment Scheduled “Appointment Type: Imaging Service” <u>View Provider Cred Output</u> RACHAEL LIM - \$300.00 GARY JOHNSON - \$110.00

		Patient DOB: 10/20/2006	
10	Clicking “PS” in “View Patient Billing” should update the patient billing and clear the appointment calendar and provider credits.	<ul style="list-style-type: none"> <i>Schedule appointments then check the patient billing is correct. After checking the patient billing, the appointments should be cleared from both “View Appts” and “View Provider Cred”.</i> test input: <p><u>Schedule Input 1</u> Appointment Type: Office Visit Appointment Date: 1/1/2025 Appointment Timeslot: 10:00 AM Provider: RACHAEL LIM Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 2</u> Appointment Type: Imaging Appointment Date: 1/1/2025 Appointment Timeslot: 2:30 PM Provider: ULTRASOUND Patient First Name: John Patient Last Name: Smith</p>	<p><u>Output 1</u> Appointment Scheduled “Appointment Type: Office Visit”</p> <p><u>Output 2</u> Appointment Scheduled “Appointment Type: Office Visit”</p> <p><u>View Appts Output</u> ** List of appointments, ordered by date/time/provider. 1/1/2025 10:00 AM John Smith 10/20/2006 [RACHAEL LIM 11/30/1975, BRIDGEWATER, Somerset 08807][PEDIATRICIAN, #23]</p> <p>1/1/2025 2:30 PM John Smith 10/20/2006 [GARY JOHNSON 11/14/1987, PISCATAWAY, Middlesex 08854][rate: \$110.00][ULTRASOUND] ** end of list **</p> <p><u>View Provider Cred Output</u> RACHAEL LIM - \$300.00 GARY JOHNSON - \$110.00</p> <p><u>View Patient Billing “PS” Output</u> John Smith - 10/20/2006 - \$410.00</p> <p><u>View Appts Output (After “PS”)</u> Schedule calendar is empty.</p> <p><u>View Provider Cred (After “PS”)</u> All providers contain \$0.00 Credit Amount (\$).</p>
11	Display appointments sorted by appointment date, time, then provider’s name.	<ul style="list-style-type: none"> <i>Schedule appointments with different providers for office visits and imaging services, and different date/times, then displaying them, sorting by PA (date, time, then provider).</i> test input: <p><u>Schedule Input 1</u> Appointment Type: Office Visit Appointment Date: 1/1/2025 Appointment Timeslot: 9:00 AM Provider: TOM KAUR</p>	<p><u>Output 1</u> Appointment Scheduled “Appointment Type: Office Visit”</p> <p><u>Output 2</u> Appointment Scheduled “Appointment Type: Office Visit”</p> <p><u>Output 3</u> Appointment Scheduled “Appointment Type: Imaging Service”</p>

		<p>Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 2</u> Appointment Type: Office Visit Appointment Date: 1/8/2025 Appointment Timeslot: 10:30 AM Provider: JOHN HARPER Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 3</u> Appointment Type: Imaging Appointment Date: 1/16/2025 Appointment Timeslot: 9:30 AM Provider: XRAY Patient First Name: Sarah Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 4</u> Appointment Type: Imaging Appointment Date: 1/13/2025 Appointment Timeslot: 9:30 AM Provider: ULTRASOUND Patient First Name: Sarah Patient Last Name: Smith Patient DOB: 10/20/2006</p>	<p><u>Output 4</u> Appointment Scheduled “Appointment Type: Imaging Service”</p> <p><u>View Appts “PA” Output</u> ** List of appointments, ordered by date/time/provider. 1/1/2025 9:00 AM John Smith 10/20/2006 [TOM KAUR 11/5/1972, PRINCETON, Mercer 08542][ALLERGIST, #54]</p> <p>1/8/2025 10:30 AM John Smith 10/20/2006 [JOHN HARPER 3/1/1981, CLARK, Union 07066][FAMILY, #32]</p> <p>1/13/2025 9:30 AM Sarah Smith 10/20/2006 [BEN JERRY 9/28/1987, PISCATAWAY, Middlesex 08854][rate: \$150.00][ULTRASOUND]</p> <p>1/16/2025 9:30 AM Sarah Smith 10/20/2006 [GARY JOHNSON 11/14/1987, PISCATAWAY, Middlesex 08854][rate: \$110.00][XRAY] ** end of list **</p>
12	Display appointments sorted by the patient (by last name, first name, date of birth, then appointment date and time).	<ul style="list-style-type: none"><i>Schedule appointments with different providers for office visits and imaging services, and different date/times, then displaying them, sorting by PP (last name, first name, dob, then appointment date and time).</i>test input: <p><u>Schedule Input 1</u> Appointment Type: Office Visit Appointment Date: 1/1/2025 Appointment Timeslot: 9:00 AM Provider: TOM KAUR Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 2</u> Appointment Type: Office Visit Appointment Date: 1/8/2025</p>	<p><u>Output 1</u> Appointment Scheduled “Appointment Type: Office Visit”</p> <p><u>Output 2</u> Appointment Scheduled “Appointment Type: Office Visit”</p> <p><u>Output 3</u> Appointment Scheduled “Appointment Type: Imaging Service”</p> <p><u>Output 4</u> Appointment Scheduled “Appointment Type: Imaging Service”</p> <p><u>View Appts “PP” Output</u> ** List of appointments, ordered by date/time/provider. 1/1/2025 9:00 AM John Smith</p>

		<p>Appointment Timeslot: 10:30 AM Provider: JOHN HARPER Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 3</u> Appointment Type: Imaging Appointment Date: 1/16/2025 Appointment Timeslot: 9:30 AM Provider: XRAY Patient First Name: Sarah Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 4</u> Appointment Type: Imaging Appointment Date: 1/13/2025 Appointment Timeslot: 9:30 AM Provider: ULTRASOUND Patient First Name: Sarah Patient Last Name: Smith Patient DOB: 10/20/2006</p>	<p>10/20/2006 [TOM KAUR 11/5/1972, PRINCETON, Mercer 08542][ALLERGIST, #54]</p> <p>1/8/2025 10:30 AM John Smith 10/20/2006 [JOHN HARPER 3/1/1981, CLARK, Union 07066][FAMILY, #32]</p> <p>1/13/2025 9:30 AM Sarah Smith 10/20/2006 [BEN JERRY 9/28/1987, PISCATAWAY, Middlesex 08854][rate: \$150.00][ULTRASOUND]</p> <p>1/16/2025 9:30 AM Sarah Smith 10/20/2006 [GARY JOHNSON 11/14/1987, PISCATAWAY, Middlesex 08854][rate: \$110.00][XRAY] ** end of list **</p>
13	Display appointments sorted by the county name, then the appointment date and time.	<ul style="list-style-type: none"><i>Schedule appointments with different providers for office visits and imaging services, and different date/times, then displaying them, sorting by PL (county name, then appointment date/time).</i>test input: <p><u>Schedule Input 1</u> Appointment Type: Office Visit Appointment Date: 1/1/2025 Appointment Timeslot: 9:00 AM Provider: TOM KAUR Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 2</u> Appointment Type: Office Visit Appointment Date: 1/8/2025 Appointment Timeslot: 10:30 AM Provider: JOHN HARPER Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 3</u> Appointment Type: Imaging Appointment Date: 1/16/2025</p>	<p><u>Output 1</u> Appointment Scheduled “Appointment Type: Office Visit”</p> <p><u>Output 2</u> Appointment Scheduled “Appointment Type: Office Visit”</p> <p><u>Output 3</u> Appointment Scheduled “Appointment Type: Imaging Service”</p> <p><u>Output 4</u> Appointment Scheduled “Appointment Type: Imaging Service”</p> <p><u>View Appts “PL” Output</u> ** List of appointments, ordered by county/date/time. 1/1/2025 9:00 AM John Smith 10/20/2006 [TOM KAUR 11/5/1972, PRINCETON, Mercer 08542][ALLERGIST, #54]</p> <p>1/13/2025 9:30 AM Sarah Smith 10/20/2006 [BEN JERRY 9/28/1987, PISCATAWAY, Middlesex 08854][rate:</p>

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Display office appointments, sorted by the county name, then date and time.

- *Schedule appointments with different providers for office visits, and different date/times, then displaying them, sorting by PO (county name, then date/time).*
- **test input:**

Schedule Input 1

Appointment Type: Office Visit
Appointment Date: 1/1/2025
Appointment Timeslot: 9:00 AM
Provider: TOM KAUR
Patient First Name: John
Patient Last Name: Smith
Patient DOB: 10/20/2006

Schedule Input 2

Appointment Type: Office Visit
Appointment Date: 1/8/2025
Appointment Timeslot: 10:30 AM
Provider: JOHN HARPER
Patient First Name: John
Patient Last Name: Smith
Patient DOB: 10/20/2006

Schedule Input 3

Appointment Type: Imaging
Appointment Date: 1/16/2025
Appointment Timeslot: 9:30 AM
Provider: XRAY
Patient First Name: Sarah
Patient Last Name: Smith
Patient DOB: 10/20/2006

Schedule Input 4

Appointment Type: Imaging
Appointment Date: 1/13/2025
Appointment Timeslot: 9:30 AM

Appointment Timeslot: 9:30 AM
Provider: XRAY
Patient First Name: Sarah
Patient Last Name: Smith
Patient DOB: 10/20/2006

Schedule Input 4

Appointment Type: Imaging
Appointment Date: 1/13/2025
Appointment Timeslot: 9:30 AM
Provider: ULTRASOUND
Patient First Name: Sarah
Patient Last Name: Smith
Patient DOB: 10/20/2006

\$150.00][ULTRASOUND]

1/16/2025 9:30 AM Sarah Smith
10/20/2006 [GARY JOHNSON
11/14/1987, PISCATAWAY,
Middlesex 08854][rate:
\$110.00][XRAY]

1/8/2025 10:30 AM John Smith
10/20/2006 [JOHN HARPER
3/1/1981, CLARK, Union
07066][FAMILY, #32]
** end of list **

Output 1

Appointment Scheduled
"Appointment Type: Office Visit"

Output 2

Appointment Scheduled
"Appointment Type: Office Visit"

Output 3

Appointment Scheduled
"Appointment Type: Imaging
Service"

Output 4

Appointment Scheduled
"Appointment Type: Imaging
Service"

View Appts "PO" Output

** List of office appointments
ordered by county/date/time.
1/1/2025 9:00 AM John Smith
10/20/2006 [TOM KAUR
11/5/1972, PRINCETON, Mercer
08542][ALLERGIST, #54]

1/8/2025 10:30 AM John Smith
10/20/2006 [JOHN HARPER
3/1/1981, CLARK, Union
07066][FAMILY, #32]
** end of list **

		Provider: ULTRASOUND Patient First Name: Sarah Patient Last Name: Smith Patient DOB: 10/20/2006	
15	Display the list of radiology appointments, sorted by the county name, then date and time.	<ul style="list-style-type: none">• <i>Schedule imaging appointments with different imaging services, and different date/times, then displaying them, sorting by PI (only showing imaging appointments sorted by county name, then date/time).</i>• test input: <p><u>Schedule Input 1</u> Appointment Type: Office Visit Appointment Date: 1/1/2025 Appointment Timeslot: 9:00 AM Provider: TOM KAUR Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 2</u> Appointment Type: Office Visit Appointment Date: 1/8/2025 Appointment Timeslot: 10:30 AM Provider: JOHN HARPER Patient First Name: John Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 3</u> Appointment Type: Imaging Appointment Date: 1/16/2025 Appointment Timeslot: 9:30 AM Provider: XRAY Patient First Name: Sarah Patient Last Name: Smith Patient DOB: 10/20/2006</p> <p><u>Schedule Input 4</u> Appointment Type: Imaging Appointment Date: 1/13/2025 Appointment Timeslot: 9:30 AM Provider: ULTRASOUND Patient First Name: Sarah Patient Last Name: Smith Patient DOB: 10/20/2006</p>	<p><u>Output 1</u> Appointment Scheduled “Appointment Type: Office Visit”</p> <p><u>Output 2</u> Appointment Scheduled “Appointment Type: Office Visit”</p> <p><u>Output 3</u> Appointment Scheduled “Appointment Type: Imaging Service”</p> <p><u>Output 4</u> Appointment Scheduled “Appointment Type: Imaging Service”</p> <p><u>View Appts “PI” Output</u> ** List of radiology appointments ordered by county/date/time. 1/13/2025 9:30 AM Sarah Smith 10/20/2006 [BEN JERRY 9/28/1987, PISCATAWAY, Middlesex 08854][rate: \$150.00][ULTRASOUND] 1/16/2025 9:30 AM Sarah Smith 10/20/2006 [GARY JOHNSON 11/14/1987, PISCATAWAY, Middlesex 08854][rate: \$110.00][XRAY] ** end of list **</p>