| Test Case # | Requirement | Test description and Input Data | Expected Result/Output |
| --- | --- | --- | --- |
| 1 | The scheduler doesn’t accept a date before 1900. | Attempt to schedule an appointment for a date before year 1900.  input: “11/4/1899” | “Appointment date: 11/4/1899 is not a valid calendar date.” |
| 2 | The scheduler doesn’t accept a patient DoB before 1900. | Attempt to schedule an appointment with a patient DOB before 1900.  input: “11/18/1899” | “Patient dob: 11/18/1899 is invalid.” |
| 3 | The scheduler doesn’t accept a patient DoB after today’s date. | Attempt to schedule an appointment with a patient DOB after today.  input: “11/18/2024” | “Patient dob: 11/18/2024 is invalid.” |
| 4 | The scheduler doesn’t accept an appointment date on a weekend. | Attempt to schedule an appointment for a date on a weekend.  input: “11/3/2024” | “Appointment date: 11/3/2024 is Saturday or Sunday.” |
| 5 | The scheduler doesn’t accept an appointment date more than 6 months in advance. | Attempt to schedule an appointment date more than 6 months in advance.  input: “5/5/2025” | “Appointment date: 5/5/2025 is not within six months.” |
| 6 | The scheduler can’t cancel an appointment that doesn’t exist. | Attempt to cancel an appointment before creating any appointments.  Input: Office, 11/5/2024, John Doe, 1/1/2000, 9:00AM, Andrew Patel | “11/5/2024 9:00AM John Doe 1/1/2000 - appointment does not exist.” |
| 7 | The scheduler can’t add an appointment that already exists. | Attempt to add an identical appointment twice.  Input: Office, 11/5/2024, John Doe, 1/1/2000, 9:00AM, Andrew Patel | “John Doe 1/1/2000 has an existing appointment at the same time slot.” |
| 8 | The rescheduler can’t reschedule to a booked timeslot. | Create two appointments on the same day with two separate names. Reschedule the second one to the timeslot of the first one.  Input1: Office, 11/5/2024, John Doe, 1/1/2000, 9:00AM, Andrew Patel  Input2: Jane Smith, 9:30AM | “John Doe 1/1/2000 has an existing appointment at 11/5/2024 9:00 AM” |
| 9 | The rescheduler cannot reschedule an appointment that doesn’t exist. | Reschedule a non-existing appointment.  Input1: 11/5/2024, (1) 9:00 AM, (3) 10:00 AM, John, Doe, 10/3/2002, (Click Reschedule) | “11/5/2024 9:00 AM John Doe 10/3/2021 does not exist.” |
| 10 | Cannot schedule/cancel/reschedule if there are missing data tokens. | Click schedule, cancel, and reschedule without filling out all required fields | “Please fill out all required fields (Load Providers if there are no providers listed in dropdown)” |
| 11 | Cannot schedule or cancel without clicking on office or imaging radio button | Click schedule and cancel without clicking any of the office or imaging radio buttons | “Please select an office or imaging appointment to schedule or cancel appointments.” |
| 12 | Cannot schedule/cancel/reschedule without providing all necessary timeslots | Click schedule, cancel, and reschedule by providing all necessary information except timeslots  Input1: Office, 11/5/2024, John Doe, 1/1/2000, leave timeslot blank, Andrew Patel, (Click Schedule) (Click Cancel) Choose 9:00 AM, (Click Schedule), then reschedule to blank new timeslot | “Missing data tokens. Missing data tokens.  11/5/2024 9:00 AM John Doe 1/1/2000 [ANDREW PATEL 1/21/1989, BRIDGEWATER, Somerset 08807][FAMILY, #01] booked. Missing data tokens.” |
| 13 | Cannot schedule/cancel/reschedule without clicking the load provider button first. | Click schedule, cancel, and reschedule before loading the providers. | “Please load providers before scheduling or cancelling an appointment.  Please load providers before scheduling or cancelling an appointment.  Please load providers before rescheduling an appointment.” |
| 14 | Application correctly handles the case where providers.txt cannot be found | Click Load Providers when there is not a providers.txt file under the project3 directory. | Red label under Load Providers button with text “providers.txt file not found.“ |
| 15 | The scheduler can’t print any appointments, credits lists, or billing statements before any appointments are added. | Do not schedule any appointments.  Click By Date, By Patient, By Location, and the two Print buttons under Appointments tab. Click Print Credits under Credits tab. Click Print Billing Statement under Billing tab. | “Schedule calendar is empty.  Schedule calendar is empty.  Schedule calendar is empty.  Schedule calendar is empty.  Schedule calendar is empty.  Schedule calendar is empty.  Schedule calendar is empty.” |