| class name: ClinicManagerController  method signature: public void scheduleAppointment() | | | |
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| Test Case | Requirement | Test Description and Input Data | Expected Result/Output |
| #1 | The method shall return that the appointment has not been successfully booked into the system because the date is on an invalid day. | The method shall return that the specified first name, last name, date of birth and appointment date have not been successfully booked into the system because the date is on a weekend.  **Test Input:**  **Appointment Date:** 11/30/2025  **First name:** Jasmine  **Last name:** Justin  **Date of birth:** 1/15/2003  *Office Visit*  **Provider:**  Andrew Patel  **Timeslot:** 9:00AM | “Error: Appointment date: 11/30/2025 is on a weekend.” |
| #2 | The method shall return that the specified appointment has not been successfully booked into the system because the date is not within the scheduled date time frame. | The method shall return that the specified first name, last name, date of birth and appointment date have not been successfully booked into the system because the date is not six months from the date of schedule  **Test Input:**  **Appointment Date:** 12/1/2025  **First name:** Jasmine  **Last name:** Justin  **Date of birth:** 1/15/2003  *Office Visit*  **Provider:**  Andrew Patel  **Timeslot:** 9:00AM | “Error: Appointment date 12/01/2025 is not within six months from today.” |
| #3 | The method shall return that the appointment has been successfully booked as long as all required fields are filled out and valid. | The method shall return that the specified first name, last name, date of birth and appointment date has been successfully booked.  **Test Input:**  **Appointment Date:** 12/1/2024  **First name:** Jasmine  **Last name:** Justin  **Date of birth:** 1/15/2003  *Office Visit*  **Provider:**  Andrew Patel  **Timeslot:** 9:00AM | “12/02/2024 9:00 AM Jasmine Justin 01/15/2003 [ANDREW PATEL 01/21/1989, BRIDGEWATER, Somerset 08807 [FAMILY #01] booked.” |
| #4 | The method shall return that the specified appointment schedule was not successful because the appointment already exists. | After successfully booking an appointment, the method shall return that the booking for the specified first name, last name, date of birth and appointment date for the second appointment has not been successful because the appointment has already been booked.  **Test Input:**  First Appointment  **Input Appointment Date**: 12/1/2024  **First name:** Jasmine  **Last name:** Justin  **Date of birth:** 1/15/2003  *Office Visit*  **Provider:**  Andrew Patel  **Timeslot:** 9:00AM  *Click Schedule button*  Second Appointment  **Input Appointment Date**: 12/1/2024  **First name:** Jasmine  **Last name:** Justin  **Date of birth:** 1/15/2003  *Office Visit*  **Provider:**  Andrew Patel  **Timeslot:** 9:00AM | “Jasmine Justin 01/15/2003 has an existing appointment at the same time slot.” |
| #5 | The method shall return an error message if one of the fields needed to schedule an appointment is empty. | Create an instance in which all required information fields are filled out, except the First Name text field.  **Test Input:**  **Appointment Date:** 11/21/2024  **First Name:** empty  **Last Name:** Justin  **Date of birth:** 1/15/2003  *Office Visit*  **Provider:** Gary Johnson  **Timeslot:** 10:00AM | “Missing first name. Please enter first name.” |

| class name: ClinicManagerController  method signature: public void cancelAppointment() | | | |
| --- | --- | --- | --- |
| Test Case | Requirement | Test Description and Input Data | Expected Result/Output |
| #1 | The method shall return that the specified first name, last name, date of birth and appointment date has been successfully canceled. | For this test case, the appointment  **Test Input:**  **Appointment Date:** 12/1/2024  **First name:** Jasmine  **Last name:** Justin  **Date of birth:** 1/15/2003  *Office Visit*  **Provider:**  Andrew Patel  **Timeslot:** 9:00AM”  must be scheduled before selecting cancel.  **Input Appointment Date:** 12/1/2024  **First name:** Jasmine  **Last name:** Justin  **Date of birth:** 1/15/2003  *Office Visit*  **Provider:**  Andrew Patel  **Timeslot:** 9:00AM. The following appointment | “12/02/2024 9:00 AM - Jasmine Justin 01/15/2003 appointment has been canceled.” |
| #2 | The method shall return that the specified appointment does not exist. | For this test case, the appointment, Input:  **Test Input:**  **Appointment Date:** 12/1/2024  **First name:** Jasmine  **Last name:** Justin  **Date of birth:** 1/15/2003  *Office Visit*  **Provider:**  Andrew Patel  **Timeslot:** 9:00AM”  must be scheduled before selecting cancel. After canceling, you must click the cancel button again. | “10/31/2024 9:00 AM - Jasmine Justin 01/15/2003 does not exist.” |
| #3 | The method shall return an error message if the patient fills out patient information incorrectly. | Create an instance in which after scheduling an appointment the patient inputs an incorrect date of birth.  **Test Input:**  Scheduled Appointment  **Appointment Date:** 11/14/2024  **First Name:** Jasmine  **Last Name:** Justin  **Date of Birth:** 1/15/2003  *Office Visit*  **Provider:** Gary Johnson  **Timeslot:** 10:30AM  Appointment to Cancel  **Appointment Date:** 11/14/2024  **First Name:** Jasmine  **Last Name:** Justin  **Date of Birth:** 1/15/2004  *Office Visit*  **Provider:** Gary Johnson  **Timeslot:** 10:30AM | “11/14/2024 10:30 AM - Jasmine Justin 1/15/2003 does not exist.” |
| #4 | The method shall return error output if the *Clear All* button is utilized after scheduling an appointment. | Create an instance where the patient and appointment information is cleared from the text fields, combo boxes, and drop downs straight after scheduling an appointment  **Test Input:**  Scheduled Appointment  **Appointment Date:** 11/14/2024  **First Name:** Jasmine  **Last Name:** Justin  **Date of Birth:** 1/15/2003  *Office Visit*  **Provider:** Gary Johnson  **Timeslot:** 10:30AM  *Clear All Button Pressed*  Appointment to Cancel  **Appointment Date:**  **First Name:**  **Last Name:**  **Date of Birth:**  **Provider:**  **Timeslot:** | “Missing first name. Please enter first name.  Missing last name. Please enter last name.  Missing a requested timeslot for appointment. Please choose a timeslot.” |

| class name: ClinicManagerController  method signature: public void rescheduleAppointment() | | | |
| --- | --- | --- | --- |
| Test Case | Requirement | Test Description and Input Data | Expected Result/Output |
| #1 | This method will display an error message if any of the required fields are empty. | Create an instance of a valid scheduled appointment with all fields except the first name filled out  **Test Input:**  **First Name**: empty  **Last Name:** Nohra  **DOB:** 01/01/2002  **Appt. Date:** 11/11/2024  **Appt.Timeslot:** 10:00AM  **New Appt. Date:** 11/13/2024  **New Timeslot:** 11:00AM | “Error: Please enter First Name.” |
| #2 | This method will return an error message if an appointment trying to be rescheduled was not scheduled in the first place. | Create an instance of an appointment that has not yet been scheduled  **Test Input:**  **First Name:** Jonathan  **Last Name:** Nohra  **DOB:** 01/01/2002  **Appt. Date:** 11/11/2024  **Appt. Timeslot:** 10:00AM  **New Appt. Date:** 11/13/2024  **New Timeslot:** 11:00AM | “Error: No existing appointment found to reschedule.” |
| #3 | This method will return a confirmation message if an existing scheduled appointment exists, all fields are properly filled out, and new chosen time slots and dates are valid. | Create an instance of a valid schedule date and valid reschedule time and date  **Test Input:**  **First Name:** Jonah  **Last Name:** Abraham  **DOB:** 02/04/2002  **Appt. Date:** 11/13/2024  **Appt. Timeslot:** 10:00AM  **New Appt. Date:** 11/14/2024  **New Timeslot:** 11:00AM | “Appointment for Jonah Abraham rescheduled for 11/13/2024 to 11/14/2024 at 11:00AM” |
| #4 | This method will successfully reschedule an appointment with two of the same attributes (date, provider, timeslot), as long as one differs. | Create an instance of a scheduled appointment to reschedule with the same time slot and provider as the old appointment, but different appointment date.  **Test Input:**  First Scheduled Appointment:  **First Name:** Jonah  **Last Name:** Nohra  **DOB:** 02/04/2002  **Appt. Date:** 11/13/2024  **Appt. Timeslot:**10:00AM  *Office Visit*  **Provider:** Monica Zimnes  Second Scheduled Appointment:  **First Name:** Jane  **Last Name:** Dan  **DOB:** 11/06/2003  **Appt. Date:** 11/13/2024  **Appt. Timeslot:** 10:30AM  *Office Visit*  **Provider:** Monica Zimnes  Rescheduled Appointment:  **First Name:** Jonah,  **Last Name:** Nohra  **DOB:** 02/04/2002  **Old Appt. Date:** 11/13/2024  **Old Appt. Timeslot:** 10:00AM  **New Appt. Date:** 11/22/2024  **New Appt. Timeslot:** 10:30AM | “Appointment for Jonah Nohra 02/04/2002 rescheduled from 11/13/2024 to 11/22/2024 at 10:30 AM.” |
| #5 | This method will return an error message if the new chosen appointment date is not valid. | Create an instance of a new appointment date that is on a weekend.  **Test Input:**  **First Name:** Jonah  **Last Name:** Abraham  **DOB:** 02/04/2002  **Appt. Date:** 11/13/2024  **Appt. Timeslot:** 10:00AM  **New Appt. Date:** 11/16/2024  **New Timeslot:** 11:00AM | “Error: Appointment date: 11/09/2024 is on a weekend.” |
| #6 | This method will return an error message if there is already an existing appointment at the same time, date, and with the same provider. | Create an instance of a valid schedule that a patient intends to reschedule at the same time as another patient on the same date and with the same provider.  Create an instance of a valid scheduled appointment, but new appointment time is already booked with the scheduled provider.  **Test Input:**  First Scheduled Appointment:  **First Name:** Jonah,  **Last Name:** Abraham  **DOB:** 02/04/2002  **Appt. Date:** 11/13/2024  **Appt. Timeslot:** 10:00AM  *Office Visit*  **Provider:** Monica Zimnes  Second Scheduled Appointment:  **First Name:** Jane,  **Last Name:** Dan  **DOB:** 11/06/2003  **Appt. Date:** 11/13/2024  **Appt. Timeslot:** 10:30AM  *Office Visit*  **Provider:** Monica Zimnes  Rescheduled Appointment:  **First Name:** Jonah,  **Last Name:** Abraham  **DOB:** 02/04/2002  **Old Appt. Date:** 11/13/2024  **Old Appt. Timeslot:** 10:00AM  **New Appt. Date:** 11/13/2024  **New Timeslot:** 10:30AM | “Error: A conflicting appointment exists on 11/13/2024 at 10:30 AM with provider MONICA ZIMNES 11/05/1972, PRINCETON, Mercer 08542 [ALLERGIST #54].” |