The purpose of this template is to provide opportunities for you to share all of the components of your final assessment. Please have your Peer Reviewer complete the highlighted section prior to submitting.

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| --- | --- |
| Term | Fall 2022 |
| Professor | Ujjwal Khanna |
| Course Code | SYD366 |
| Course Section letter | ZAA, NAA, NCC, NFF |
| Date of Final Assessment | Dec 5, Dec 7 |
| Duration of Final Assessment | 2 class periods |
| Weight of Final Assessment | 40% |
| Mark breakdown :  Question 1: Class Diagram 35 marks  Question 2: Sequence Diagram 40 marks 30 MARKS  TOTAL MARKS 75 marks 63 MARKS  (Total marks for the Final Assessment) |  |
| Final Assessment Peer Reviewer Name  & Comments |  |

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| --- |
| Instructions  Please read the case study and questions in this set of papers. Answer the questions in the question sheets provided. You must hand in both Question and Answer Sheets at the end of class. Anything written on the questions sheets will not be graded.  You are welcome to use 3 reference sheets. Please include your reference sheet with your work.  Make sure that your name and student number are on every page of the anwer sheets and your reference sheet.  **You will not share your answers with others, in person or through social/digital media.**  **Any outside help or sharing of answers is cheating and major violations of Seneca College’s Academic Honesty Policy.**  **All violators shall be pursued using social media records where possible. You agree NOT to replicate, copy, and print or record any questions on this exam to share with others.**  **See Seneca's Academic Honesty Policy**  As a Seneca student, you must conduct yourself in an honest and trustworthy manner in all aspects of your academic career. A dishonest attempt to obtain an academic advantage is considered an offense and will not be tolerated by the College.  **See Seneca Policies on Cheating and Plagiarism:**  **(**[**https://www.senecacollege.ca/about/policies/academic-integrity-policy.html**](https://www.senecacollege.ca/about/policies/academic-integrity-policy.html)**)** |

**Case Study**

Employees of Aztec Realty loved the switch to home offices during the pandemic and have built a case for continuing the practice, leaving Aztec Realty with expense, empty office space.

Jorge, the office manager saw an opportunity to rent out office space by the hour to companies who have abandoned their office space and occasionally require office space use.

With a quick renovation, Jorge separated 3 offices and a reception area from Aztec Realty’s main space and A1 Offices was open for business.

Each office has it’s own unique sets of features and size.

|  |  |  |
| --- | --- | --- |
| Office Name | Number of People | Features |
| Cacao | 6 | Coffee Maker  Sink  Fridge  Projector  Screen |
| Chili | 12 | Coffee Maker  Kettle  Sink  Fridge  Projector  2 screens |
| Avocado | 25 | Large table breaks down into smaller tables  Extra tables  Coffee Maker  Kettle  Sink  Fridge  HDMI Capable monitors on all walls |

A1 Offices reception area is always staffed with courteous staff to aid in the booking of offices, ensuring that the office are well stocked and clean. Additionally, A1 Offices offers the services of a professional note taker with meeting recording skills.  This employee works on one meeting at a time and can only work 9 hours during a day.

Your team is working on a new scheduling system for AI Offices. Your team leader has written the following scenarios to capture Jorge’s requirements.

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Add Office Booking | | |
| Triggering Event | Customer requests booking office space | | |
| Brief Description | Allows the Office Manager to add a room booking | | |
| Actors | Office Manager | | |
| Related Use Cases |  | | |
| Preconditions | Office Manager has opened the Main Menu. | | |
| Post Conditions | Room Booking is saved to the database and now can be queried. | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to add an office booking | Displays a list of customers including customer name and telephone number. Displays a calendar requesting starting date of the office booking. Displays a list of offices including office name, description, list of features and maximum capacity |
|  | 2. | Selects a customer, selects a date, selects an office. | Displays a list of office bookings for the week encompassing the selected date in ‘timetable’ format.  Displays a list of note taker bookings for the selected week in ‘timetable’ format.  Displays a list of features for the office and prompts for selection  Prompts for office bookings in one hour time slots  Prompts for note taker |
|  | 3. | Selects time slots, selects whether or not a note taker is required. Selects required office features. | Adds the office booking to the ‘timetable’ format display and prompts to save |
|  | 4. | Saves the office booking | Saves the office booking and returns to the main menu. |
| Exception Conditions | * Office Manager chooses to cancel adding the room booking. | | |

**Question 1** (worth 35 marks)

Complete a class diagram to support what your team has learned so far about *A1 Offices.*

*Diagram

Description automatically generated*

**Question 2** (worth 40 marks)

Complete a sequence diagram to support the above scenario.

Diagram

Description automatically generated with medium confidenceTable

Description automatically generated

Time Table format:

Cacao

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Monday | Tuesday | Wednesday | Thursday | Friday |
| 8:00 | Customer:  Number of People:  Note Taker:  Features: | Customer:  Number of People:  Note Taker:  Features: | Customer:  Number of People:  Note Taker:  Features: | Customer:  Number of People:  Note Taker:  Features: | Customer:  Number of People:  Note Taker:  Features: |
| 9:00 | Customer:  Number of People:  Note Taker:  Features: | Customer:  Number of People:  Note Taker:  Features: | Customer:  Number of People:  Note Taker:  Features: | Customer:  Number of People:  Note Taker:  Features: | Customer:  Number of People:  Note Taker:  Features: |
| 10:00 | Customer:  Number of People:  Note Taker:  Features: | Customer:  Number of People:  Note Taker:  Features: | Customer:  Number of People:  Note Taker:  Features: | Customer:  Number of People:  Note Taker:  Features: | Customer:  Number of People:  Note Taker:  Features: |