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| Shape, circle  Description automatically generated | **INF 271**  **Practical 5**  **Date: 7 April 2022**  **Due Date:8 April 2022 @ 23:59 – Upload on ClickUP** |

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| Surname | Kloppers | Surname | N/A |
| Initials | GJ | Initials | N/A |
| Student Number | 21442453 | Student Number | N/A |
| Name of Lecturer | | Dr. K Pillay, Prof M Hattingh | |
| Date of Submission | | 10/4/2022 | |
| Declaration:  I declare that this assignment, submitted by me, is my own work and that I have referenced all the sources that I have used.  *The University of Pretoria commits itself to produce academic work of integrity. I affirm that I am aware of and have read the Rules and Policies of the University, more specifically the Disciplinary Procedure and the Tests and Examinations Rules, which prohibit any unethical, dishonest or improper conduct during tests, assignments, examinations and/or any other forms of assessment. I am aware that no student or any other person may assist or attempt to assist another student, or obtain help, or attempt to obtain help from another student or any other person during tests, assessments, assignments, examinations and/or any other forms of assessment.* | | | |
| Signature of Student | | GERHARD KLOPPERS | |
| Signature of Student | | N/A | |

**Instructions**

For this practical you will work in pairs of two. Only one submission to ClickUp is required. Please ensure to sign the declaration of plagiarism and ensure your student information is completed.

Complete the following diagrams for the Soapy Suds case study:

1. **Narrative for 2.3 Make Booking**
2. **ERD**
3. **Primitive-level DFD for 2.3 Make Booking**

Ensure all diagrams are named accordingly and done neatly.

Submission must be done in WORD/PDF format on ClickUP. Once you have completed drawing the diagram on PowerDesigner, add it to the bottom of the document.

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| **Soapy Suds System:** | | | |
| Author:  Gerhard Kloppers | Date: 10/4/2022 | | Version: 1.0.0 |
| **Use case name:** | Make Booking | | **USE CASE TYPE** |
| **Use case id:** | 2.3 | | Business Requirements: ¨ |
| **Priority:** | High | | System Analysis: ☒ |
| **Source:** | Case Study | | System Design: ¨ |
| **Primary business actor** | Owner (PBA) | | |
| **Primary system actor** | N/A | | |
| **Other participating actors:** | * Receptionist (ERA) | | |
| **Other interested stakeholders:** | * N/A | | |
| **Description:** | This use case is used for the “Make Booking” aspect, a Owner of a pup should make a booking in order for their pups to receive treatment. This creates a booking on the system for the employees to manage the services offered. | | |
| **Pre-condition:** | There must be available dates and slots for booking to be made. | | |
| **Trigger:** | Owner logs in and requests to make a booking. | | |
| **Typical course**  **Of events:** | **Step 1:** Owner logs in and requests to make a booking. | **Step 2:** Retrieve available dates for booking to occur. | |
|  | **Step 3:** Display a calendar with available dates/slots for booking. | |
| **Step 4:** Select available date/slot and treatment type for booking. | **Step 5:** Capture booking info. Change booking status to: “Reserved” | |
|  | **Step 6:** Send notification to Receptionist informing her of said booking. | |
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| **Alternate courses:** | **N/A** | | |
|  | | |
| **Conclusion:** | A booking has been made by the Owner, and the receptionist has received a notification of the booking. | | |
| **Post-condition:** | A deposit must be paid 2 days in advance of the booking date. | | |
| **Business rules** | If the deposit has not been paid 2 days in advance, the Owner is notified and the booking status is set to “Available”. | | |
| **Implementation constraints and specifications** | * An owner can only make bookings using dates/slots that are 2 days from that day, because there is a deposit payment period before check-in. | | |
| **Assumptions:** | * None | | |
| **Open issues:** | None | | |

**ERD:**

Diagram

Description automatically generated

**Primitive-Level DFD:**

Diagram

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