**INSY 5341/Section 001**

**Analysis and Design**

**Fall 2022**

**Assignment 2: Process Model Document**

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Contents

[**Context diagram** 3](#_Toc115520761)

[**Level 0 diagram** 4](#_Toc115520762)

[**Level 1 diagrams** 5](#_Toc115520763)

[**Process 1- level 1 diagram** 5](#_Toc115520764)

[**Process 2- level 1 diagram** 5](#_Toc115520765)

[**Process 3- level 1 diagram** 6](#_Toc115520766)

[**Process 4- level 1 diagram** 6](#_Toc115520767)

[**Process 5- level 1 diagram** 7](#_Toc115520768)

[**Process 6- level 1 diagram** 7](#_Toc115520769)

[**Process 7- level 1 diagram** 8](#_Toc115520770)

[**Process 8- level 1 diagram** 8](#_Toc115520771)

[**Process 9- level 1 diagram** 9](#_Toc115520772)

[**Process 10- level 1 diagram** 9](#_Toc115520773)

# **Context diagram**

Diagram

Description automatically generated

**Fig. 1 Context diagram**

**Process #0**: PRU Automated System

**DFD Actors:**

|  |  |
| --- | --- |
| **Sr. no.** | **Actor name** |
| 1 | Customer |
| 2 | Business owner |
| 3 | Store Manager |
| 4 | Store staff |
| 5 | Billing system |

**Diagram, schematic

Description automatically generated****Level 0 diagram**

**Fig. 2 Level 0 diagram**

Below are the 10 use cases converted to 10 DFD processes:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. no.** | **Process name** |  | **Sr. no.** | **Process name** |
| 1 | Manage employee records |  | 6 | Manage picnic ordering |
| 2 | Manage staff assignments |  | 7 | Manage picnic billing |
| 3 | Manage PRU inventory |  | 8 | Manage vendor records |
| 4 | Manage menu listings |  | 9 | Manage list of customers |
| 5 | Manage picnic booking |  | 10 | Manage PRU marketing |

Below are the data stores used by the system:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. no.** | **Data store name** |  | **Sr. no.** | **Data store name** |
| D1 | Staff records |  | D7 | Vendor orders |
| D2 | Staff assignments |  | D8 | PRU Menu |
| D3 | PRU calendar |  | D9 | PRU picnics |
| D4 | Vendor details |  | D10 | Customer records |
| D5 | PRU inventory |  | D11 | Unconfirmed payment list |
| D6 | Ready-made items |  |  |  |

**Level 1 diagrams**

## **Process 1- level 1 diagram**

Diagram

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**Fig. 3: Manage employee records – level 1 process 1**

## **Process 2- level 1 diagram**

Diagram

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**Fig. 4: Manage staff assignments – level 1 process 2**

## **Process 3- level 1 diagram**

Diagram

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**Fig. 5: Manage PRU inventory – level 1 process 3**

## **Process 4- level 1 diagram**

Diagram

Description automatically generated

**Fig. 6 Manage menu listings – level 1 process 4**

## **Process 5- level 1 diagram**

Diagram

Description automatically generated

**Fig. 7 Manage picnic booking – level 1 process 5**

## **Process 6- level 1 diagram**

Diagram, schematic

Description automatically generated

**Fig. 8 Manage picnic ordering – level 1 process 6**

## **Process 7- level 1 diagram**

**Diagram

Description automatically generated**

**Fig. 9 Manage picnic billing – level 1 process 7**

## **Process 8- level 1 diagram**

**Diagram

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**Fig. 10 Manage vendor records – level 1 process 8**

## **Process 9- level 1 diagram**

**Diagram

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**Fig. 11 Manage list of customers – level 1 process 9**

## **Process 10- level 1 diagram**

**Diagram

Description automatically generated**

**Fig. 12 Manage PRU marketing – level 1 process 10**