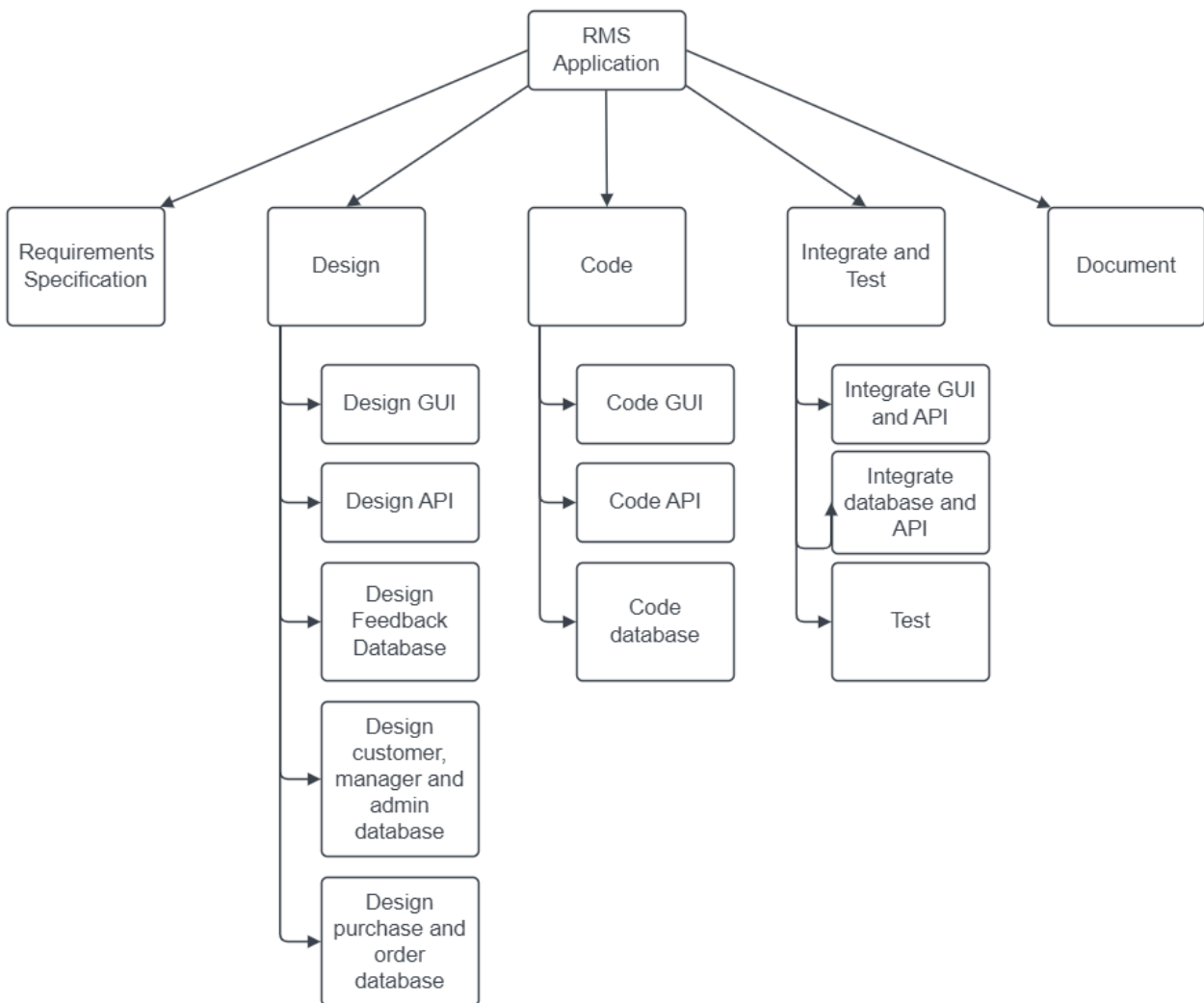# DFD and Data Dictionary for Restaurant Automation System
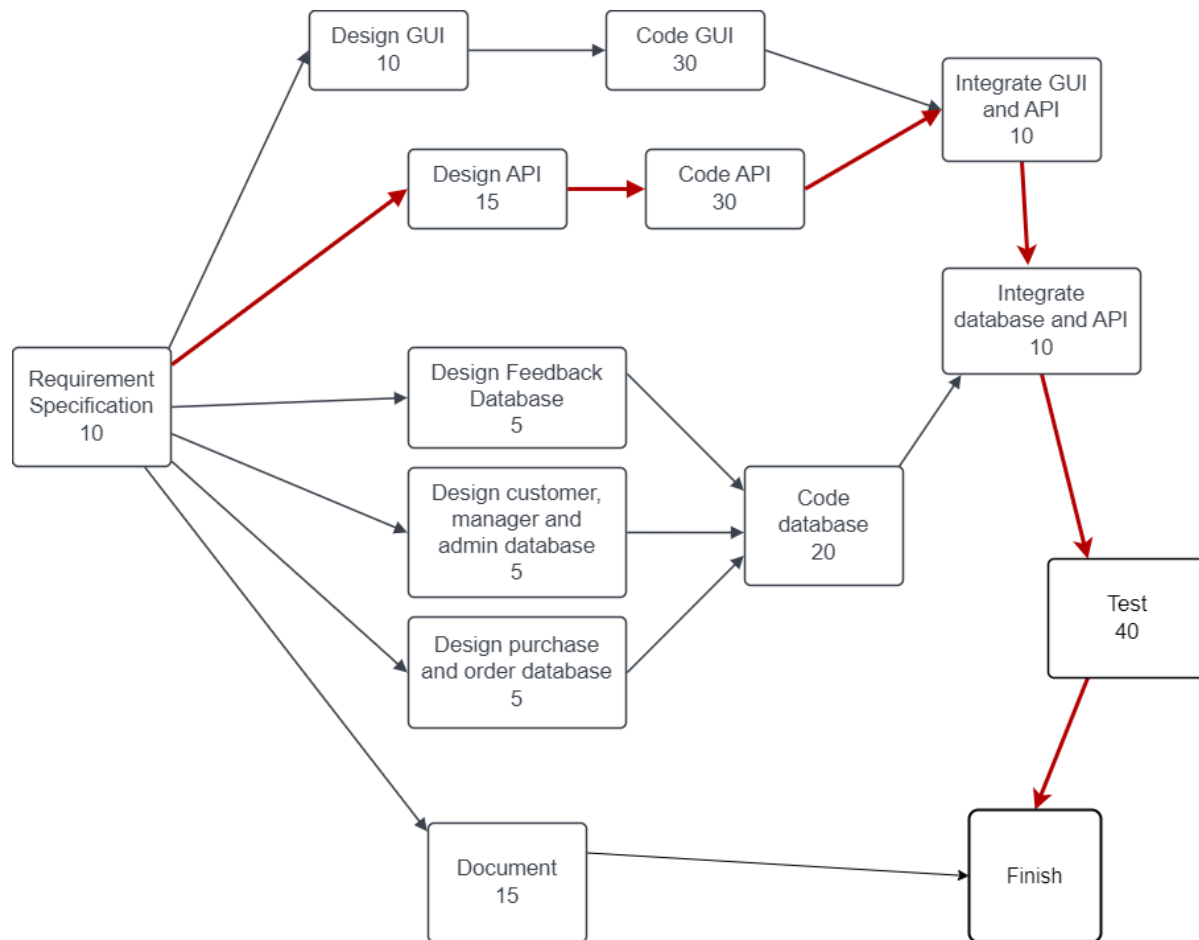
Swastik Mishra(120CS0185)

WORK BREAKDOWN STRUCTURE

ACTIVITY NETWORK

```
                    ┌──────────┐         ┌──────────┐
                    │ Design GUI│──────→ │ Code GUI │
                    │    10     │        │    30    │───┐
                    └──────────┘         └──────────┘   │
                                                         ↓
                              ┌──────────┐  ┌──────────┐ ┌──────────────┐
                              │ Design API│→│ Code API │→│ Integrate GUI │
                              │    15     │  │    30    │ │   and API     │
                              └──────────┘  └──────────┘ │     10        │
                                                         └──────────────┘
                                                                │
                                                                ↓
  ┌──────────────┐    ┌──────────────┐              ┌──────────────────┐
  │ Requirement  │──→ │Design Feedback│             │   Integrate      │
  │ Specification│    │  Database     │             │ database and API │
  │     10       │    │     5         │             │      10          │
  └──────────────┘    └──────────────┘              └──────────────────┘
                      ┌──────────────┐  ┌──────────┐          │
                      │Design customer,│ │   Code   │          ↓
                      │ manager and   │→│ database │    ┌──────────┐
                      │ admin database│  │    20    │    │   Test   │
                      │      5        │  └──────────┘    │    40    │
                      └──────────────┘                   └──────────┘
                      ┌──────────────┐                        │
                      │Design purchase│                        ↓
                      │and order database│  ┌──────────┐  ┌──────────┐
                      │      5        │    │ Document │→ │  Finish  │
                      └──────────────┘    │    15    │   └──────────┘
                                          └──────────┘
```

Time and Dependency Chart

Task Number	Task	Duration (in hours)	Dependent on Tasks
T1	Requirements Specification	10	
T2	Design feedback database	5	T1
T3	Design customer, manager and admin database	5	T1
T4	Design purchase and order database	5	T1
T5	Design GUI	10	T1
T6	Design API	15	T1
T7	Code GUI	30	T5
T8	Code API	30	T6
T9	Code database	20	T2, T3, T4
T10	Integrate GUI and API	10	T7,T8
T11	Integrate database and API	10	T10
T12	Test	40	T11
T13	Document	15	T1