

SWE 530 – Assignment 2

Designing a Project Part-2: DFD, ER, STD

Mehmet Eyüpoğlu  
Instructor: Dr. Hüseyin Birkan Yılmaz

April 7, 2024

## TABLE OF CONTENTS

1. Data Flow Diagram . . . . .	ii
2. Class Diagram Crow Foot Notation . . . . .	iv
3. State Transition Diagram . . . . .	vi
REFERENCES . . . . .	viii

## **1. Data Flow Diagram**

In this type of diagram, login action is represented in a certain way. The DFD shows the steps and dependencies between them. Also, it could be viewed that source of information and the information process is clearly outlined in this diagram.

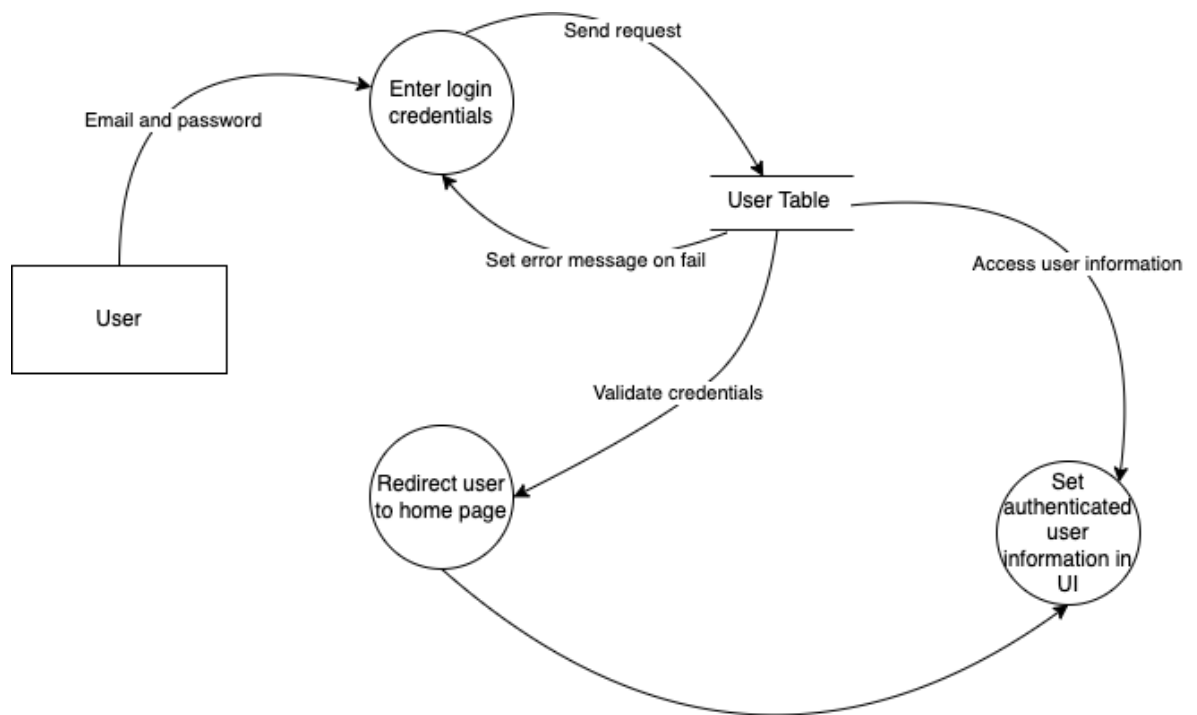


Figure 1.1. Data flow diagram - 1

## **2. Class Diagram Crow Foot Notation**

Class diagram with Crow Foot Notation has its unique way of representation. It shows the relationships between classes and cardinalities. Also, classes, as being the both static form of information and structure, contains attributes, which later could be turned into actual OOP-style classes with ease.

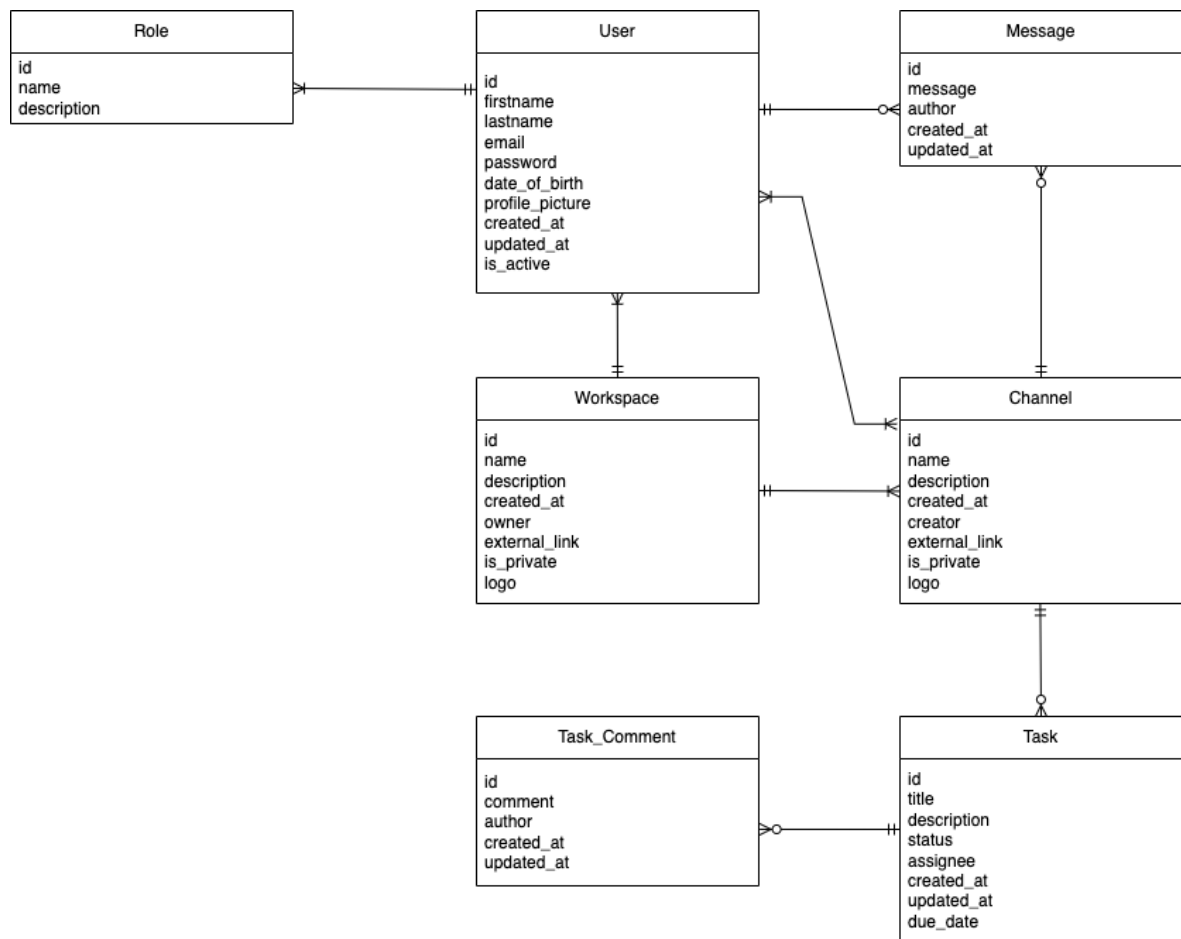


Figure 2.1. ClassDiagram with Crow Foot Notation - 1

### **3. State Transition Diagram**

State transition diagram shows the flow of state transition when a certain condition is met or an action is taken.

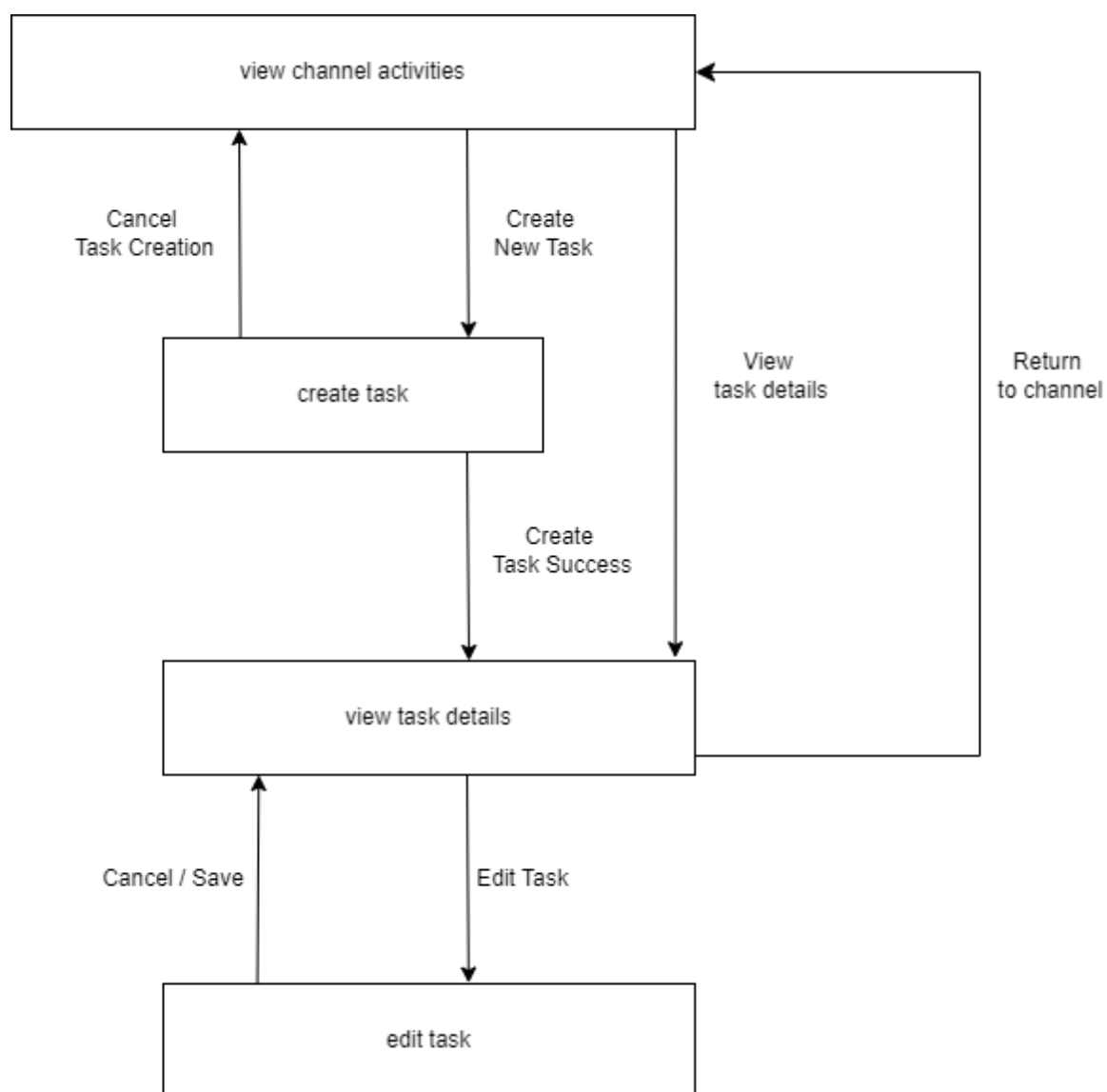


Figure 3.1. State Transition Diagram - 1



## REFERENCES