

ThriftMe

MiniPrism Co., Ltd

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Revision of Project Phase 1 Deliverables

In the first phase of the project, the deliverables can be summarized as follows.

Business Information

In this section, we have explained the important components of ThriftMe. These consist of the overview of the business, the business's services, the features of ThriftMe's application and website, ThriftMe's target customers, and the business constraints.

Requirements

We have listed out the functional requirements as well as the non-functional requirements of the business. Examples of the functional requirements are the buyers are able to choose the payment method when purchasing products, and the sellers can see their sales insight in their account menu. Examples of the non-functional requirements are the user's account password has to be at least 6 characters long, and the search result must be returned no longer than 5 seconds.

Work Breakdown Structure (WBS)

We have represented our Work Breakdown Structure using a Gantt chart. The Gantt chart consists of the main processes needed for the business such as designing the interface of the website and application, and developing the system as well as its architecture. To further elaborate on the work breakdown structure, we have also listed the tasks in each scope of work that are in the Gantt chart.

Use Case Diagram

The use case diagram that we have developed consists of the significant use cases of ThriftMe and displays the relationship of those use cases with the use case diagram actors. The four actors that we have consist of buyers, sellers, admines, and customer service representatives. Examples of the use cases are *Search items*, *Manage shopping cart*, and *Select payment method*.

Use Case Narrative

The 3 use case narratives that we have written in the first phase consist of *Search items*, *Purchase items*, and *Add second-hand items to sell*. We have explained what the actors of each use case are to do in such cases and have listed the exceptions indicating the relationship between use cases and explaining the possible alternative actions that the actors can do in that use case.

Based on the instructor's feedback, the second use case, *Purchase items*, needs revision and slight modifications. In the scenario part of the use case, the fifth step: “The buyer selects their payment method, either being *Cash on Delivery* or *Mobile Banking*.”, should be separated into two sub steps, such as the following.

- If the buyer selects the *Cash on Delivery* payment method, the buyer proceeds to the next step (step 6.).
- If the buyer selects the *Mobile Banking* payment method, the buyer will be led to choose the bank that they would like to use the services of and fill in the essential details related to the payment transfer, such as bank account number.

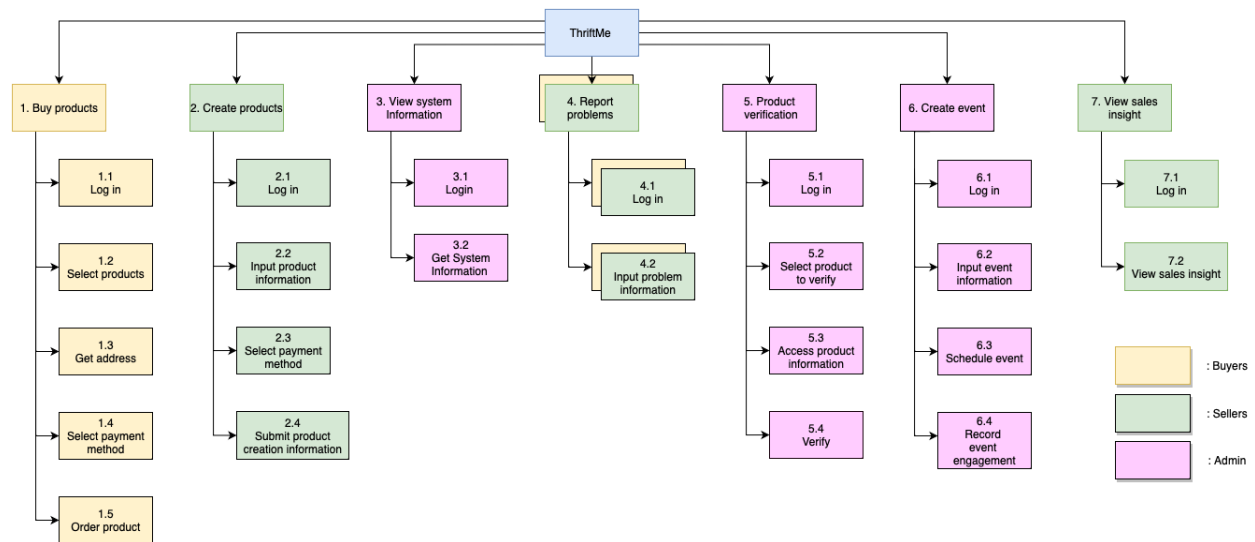
Data Flow Diagram Level 0

The data flow diagram level 0 that we have developed explains the dataflow between the system and the four entities or actors, as has been explained in the use case diagram section. Apart from the data flow diagram level 0, we have also listed out the input and output data of each entity for further clarification as well.

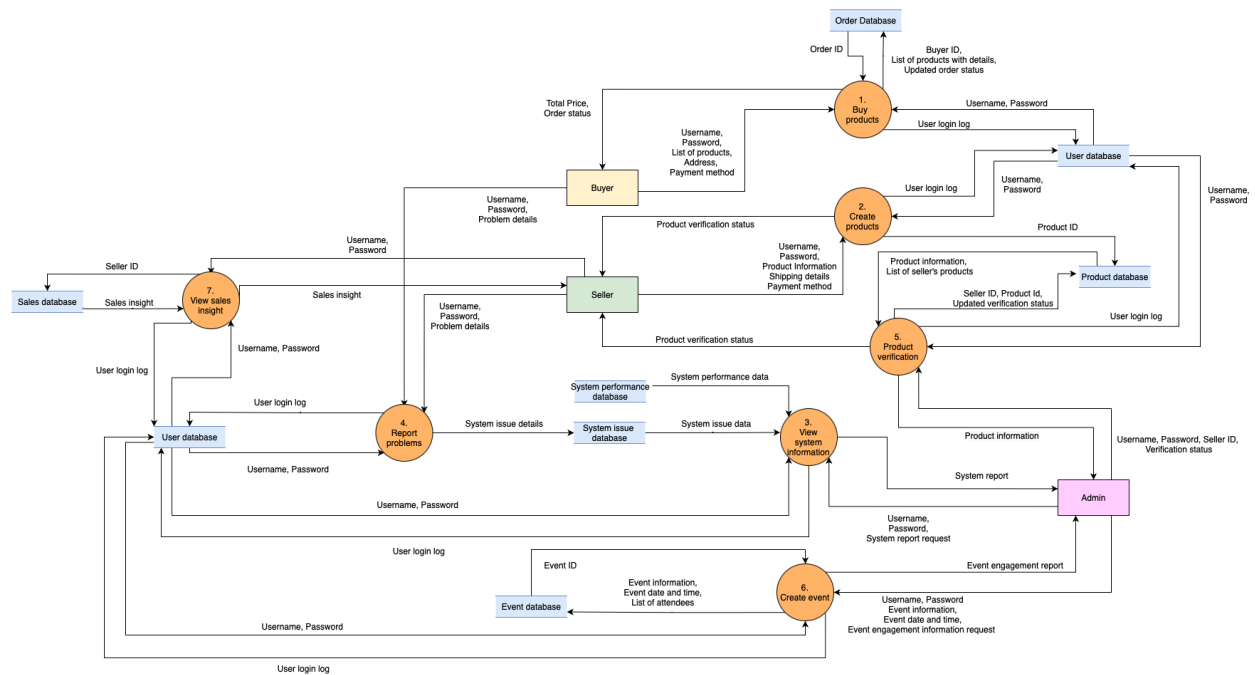
Based on the instructor's feedback, the parts of the data flow diagram that should be modified and improved are as follows.

- For the buyers and sellers data input, the *Chat messages history*, *People who chatted with*, *Post content history*, and *Comment messages history* should be changed to *Chat messages*, *People who chatted with*, *Posted content*, and *Comment messages history* because using the term “history” implies that this information is a log information, which should be from the system and not from the buyers and sellers.

Functional Decomposition Diagram

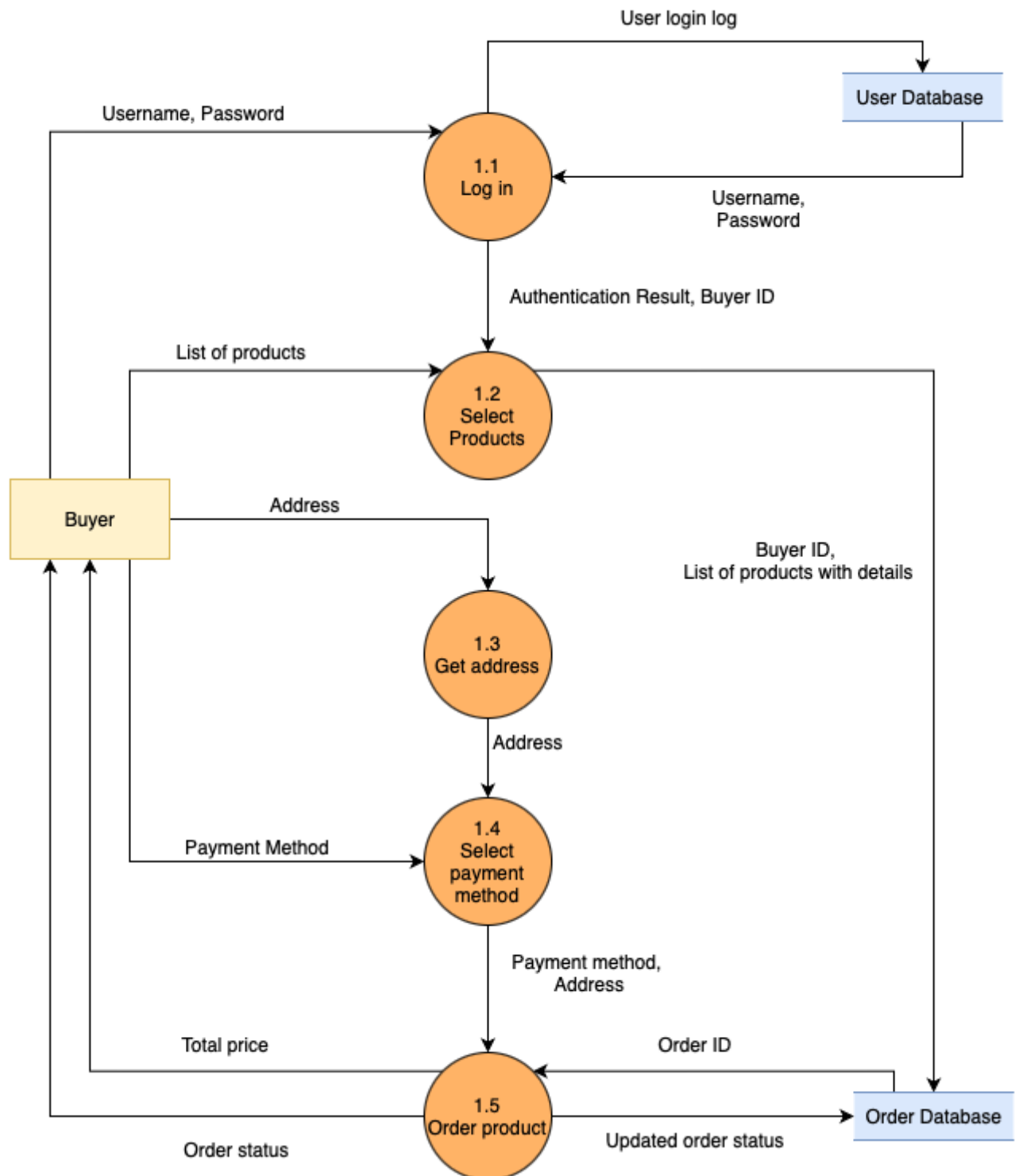


Data Flow Diagram Level 1

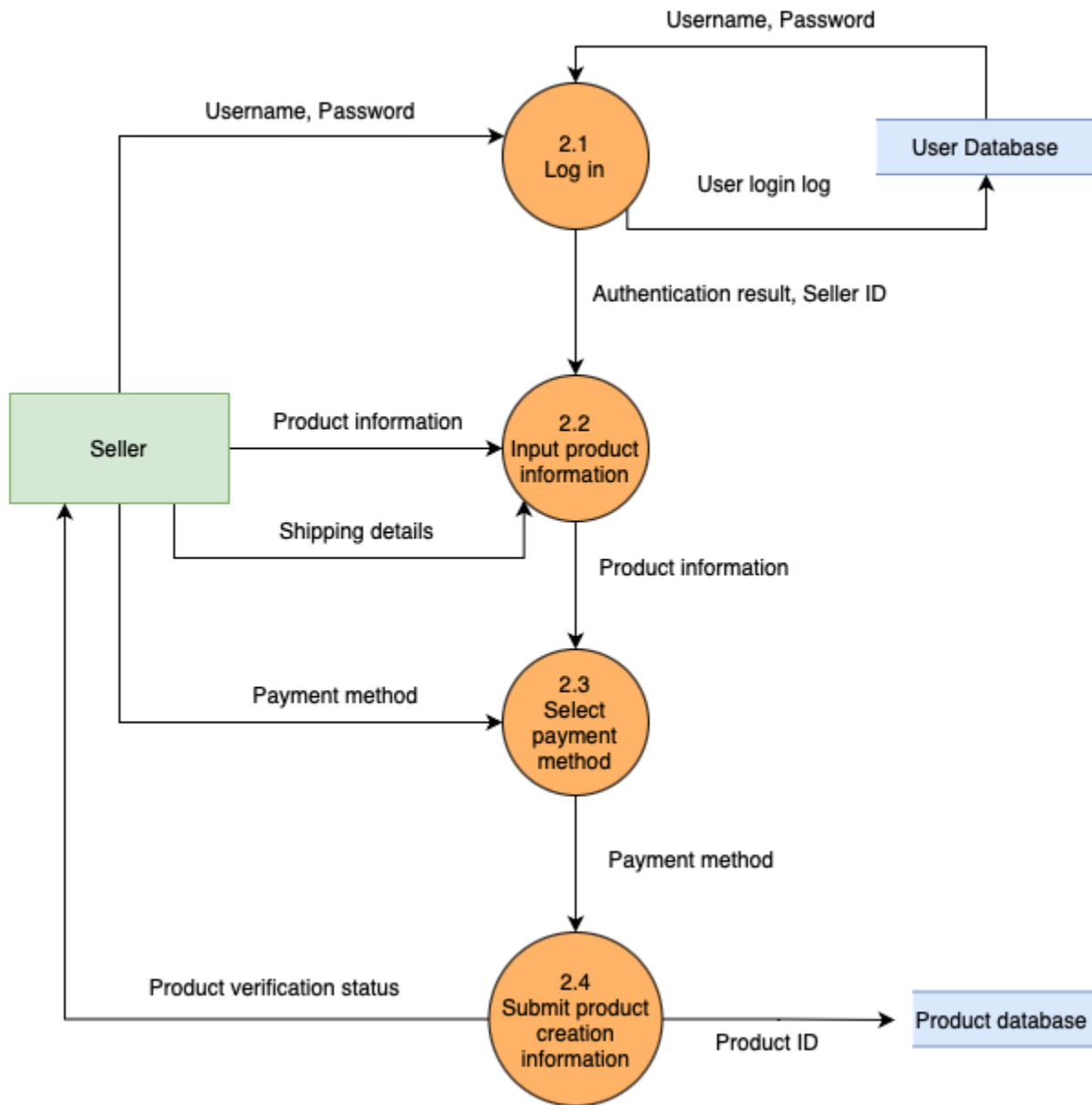


Data Flow Diagram Level 2

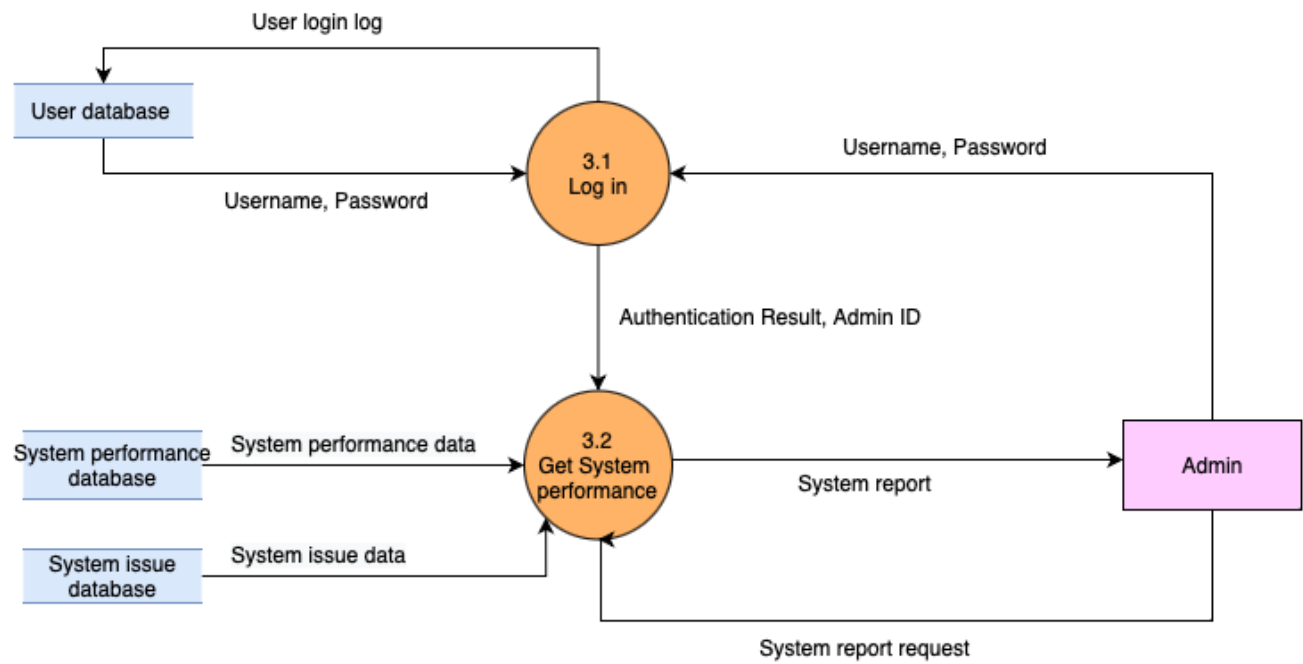
1. Buy Products



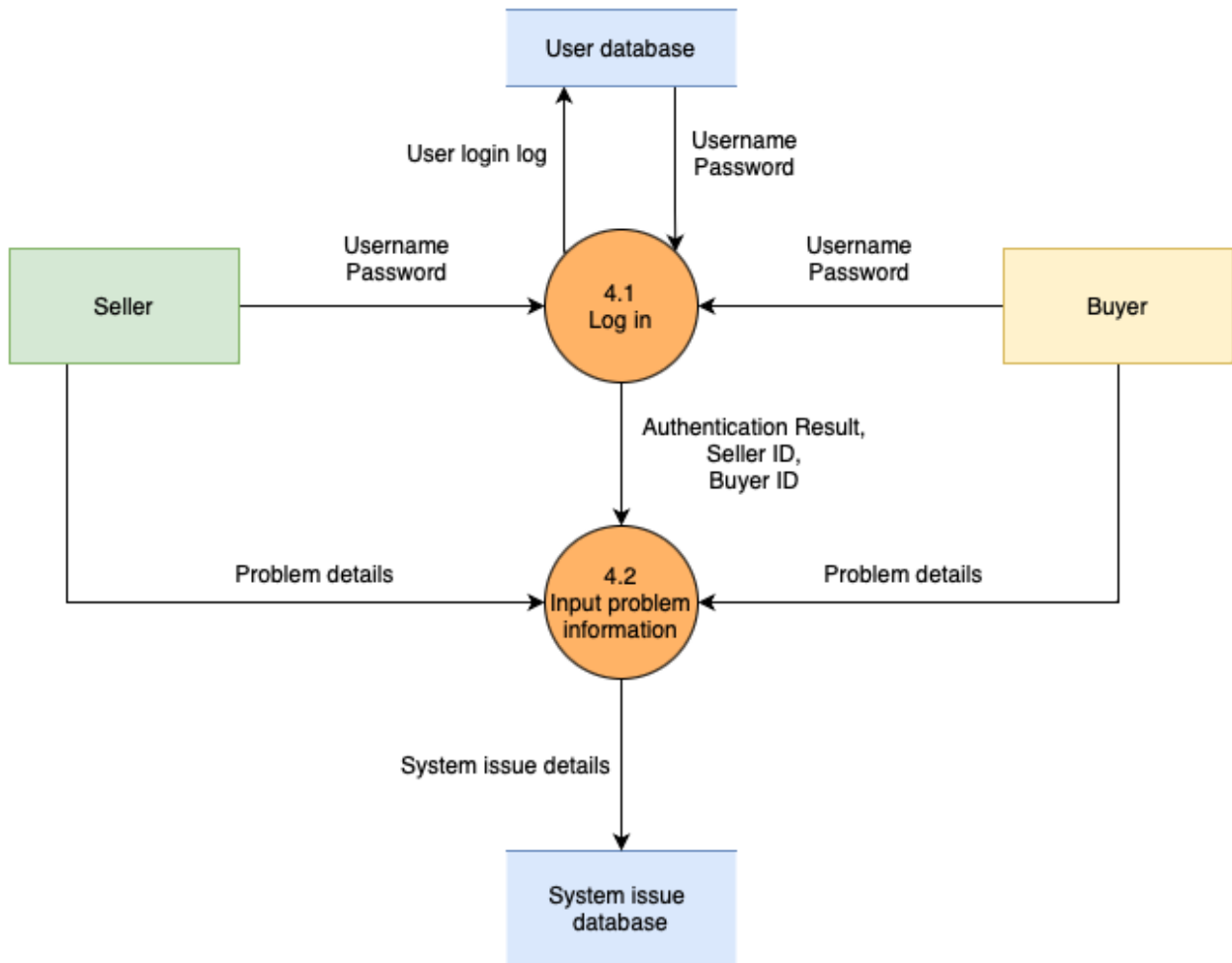
2. Create Products



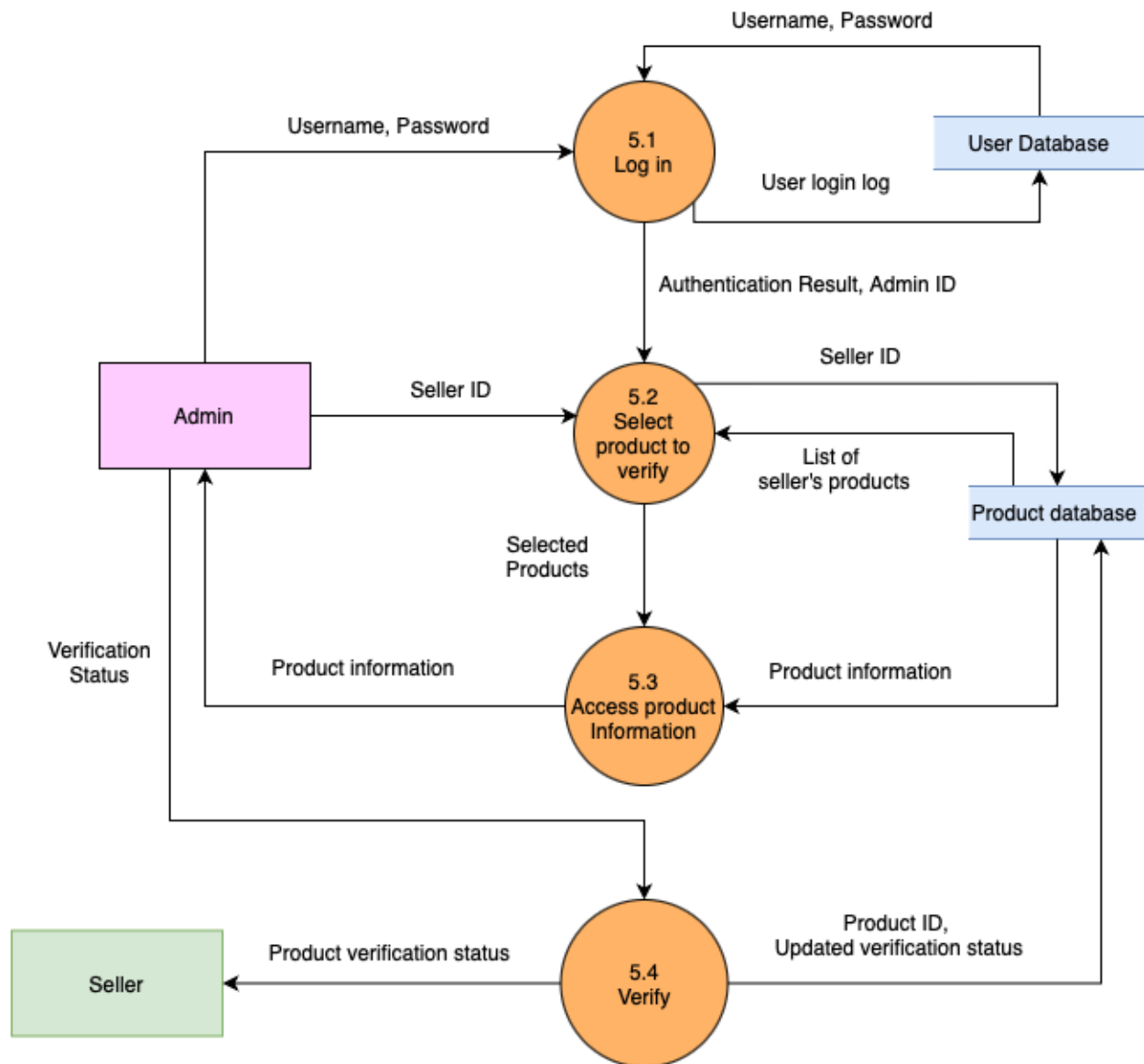
3. *View System Information*



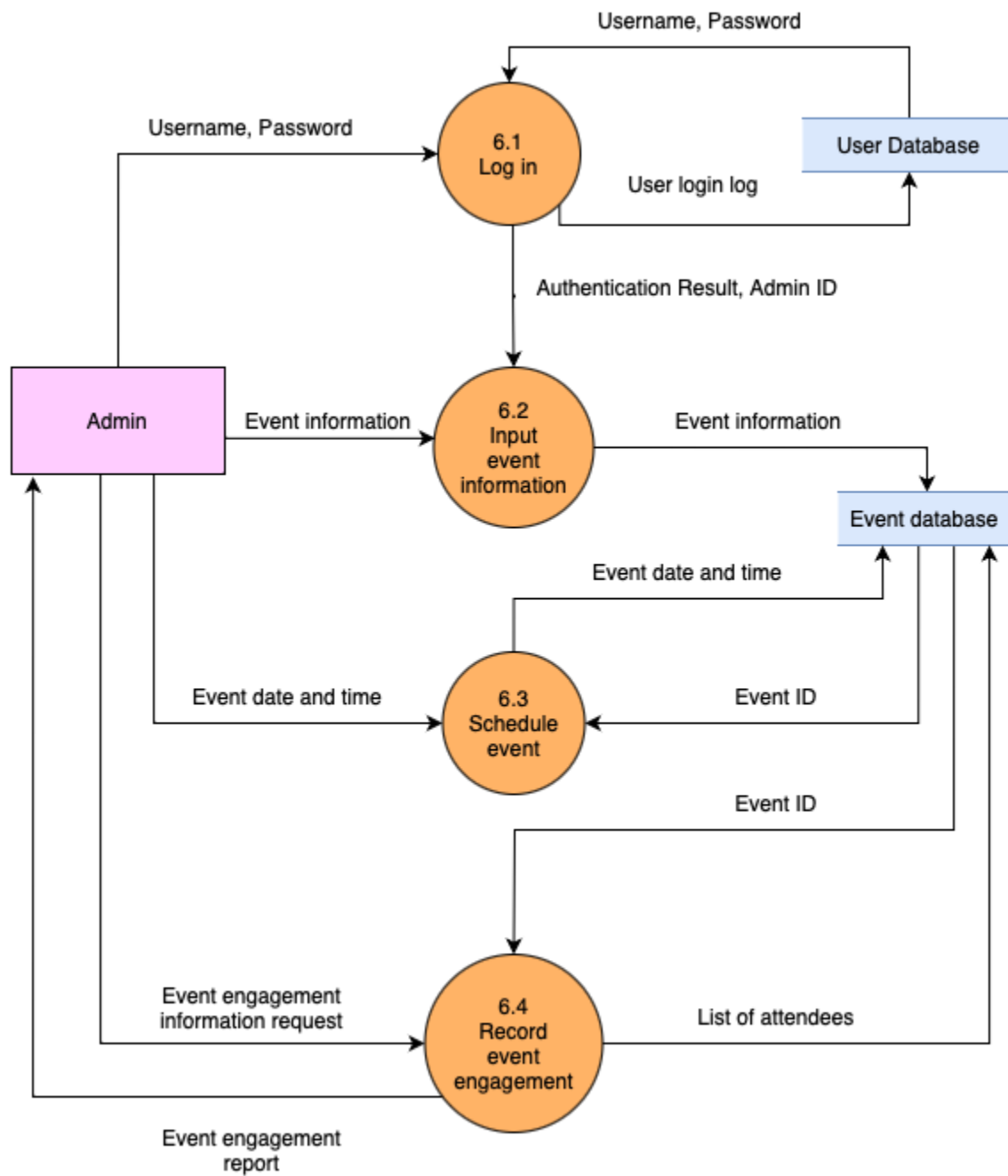
4. Report Problems



5. Product Verification



6. Create Event



7. *View Sales Insight*

