**SOFTWARE REQUIREMENTS SPECIFICATION**

**1. Product overview**

* Product name: FunixSwap – A decentralized exchange for swapping tokens.
* Product description:

//*TODO*: *Briefly describe* *the* *main* *functionality of the product.*

* The benefit to users:

// *TODO: specify* w*ho is the key user that the product is targeting. How is it beneficial to the key user? Which user’s problem will be solved by using the product?*

* Actors:

//*TODO*: *List out who/actor will be directly using the product. Briefly describe each actor.*

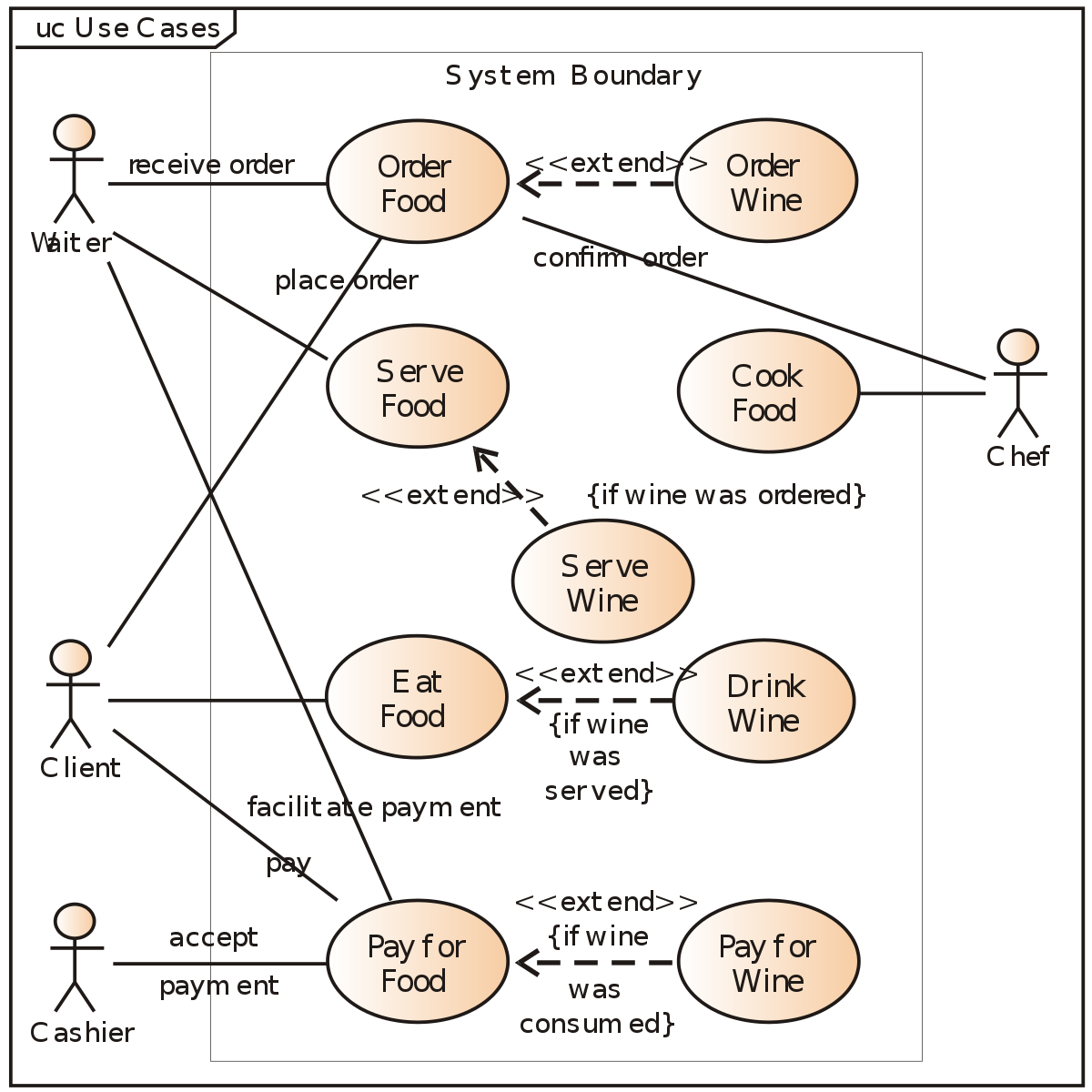
|  |  |  |
| --- | --- | --- |
| *No.* | *Actor* | *Description* |
| *1.* |  |  |
| *2.* |  |  |

**2. Functional Specifications**

**2.1. Use Cases Diagram**

// *TODO: Visualize the product features by showing the interaction between the system and its users.*

*The sample of the use case diagram is provided below, this is a UML use case diagram for the interaction of a client (the actor) within a restaurant (the system) (source:* [*Wikipedia*](https://en.wikipedia.org/wiki/Use_case_diagram)*).*



*Your work is to analyze requirements and compose a use cases diagram to cover all product features.*

**2.2. Use Cases Specifications**

// *TODO: Provide specifications for all use cases in the use cases diagram.*

*Refer to the sample of “Edit an article” use case below:*

*-- Start of sample --*

[](https://en.wikipedia.org/wiki/File:Edit_an_article.svg)

***Use Case****: Edit an article*

***Primary Actor****: Member (Registered User)*

***Brief****: The member edits any part (the entire article or just a section) of an article he/she is reading. Preview and changes comparison are allowed during the editing.*

***Post-conditions***

*Minimal Guarantees:*

*Success Guarantees:*

*• The article is saved and an updated view is shown.*

*• An edit record for the article is created by the system, so watchers of the article can be informed of the update later.*

***Preconditions****:*

*The article with editing enabled is presented to the member.*

***Triggers****:*

*The member invokes an edit request (for the full article or just one section) on the article.*

***Basic flow****:*

*1. The system provides a new editor area/box filled with all the article's relevant content with an informative edit summary for the member to edit. If the member just wants to edit a section of the article, only the original content of the section is shown, with the section title automatically filled out in the edit summary.*

*2. The member modifies the article's content till satisfied.*

*3. The member fills out the edit summary, tells the system if he/she wants to watch this article, and submits the edit.*

*4. The system saves the article, logs the edit event and finishes any necessary post processing.*

*5. The system presents the updated view of the article to the member.*

***Extensions****:*

*2-3.*

*a. Show preview:*

*1. The member selects Show preview which submits the modified content.*

*2. The system reruns step 1 with addition of the rendered updated content for preview, and informs the member that his/her edits have not been saved yet, then continues.*

*b. Show changes:*

*1. The member selects Show changes which submits the modified content.*

*2. The system reruns step 1 with addition of showing the results of comparing the differences between the current edits by the member and the most recent saved version of the article, then continues.*

*c. Cancel the edit:*

*1. The member selects Cancel.*

*2. The system discards any change the member has made, then goes to step 5.*

*4a. Timeout:*

*...*

*-- End of sample –*

**3. Non-Functional Requirements**

// *TODO: Define the non-functional requirements if any. The following requirements are non-functional:*

* *Web browser coverage: specify all web browser that product supports. This is usually listed out those popular web browsers.*
* *Mobile platform: if your application is a mobile app, then the requirements of mobile OS need to specify. It is a considerable effort to develop and deliver the application in an additional OS platform. Thus, it needs to be well-scoped at this stage, requirement analysis.*
* *System performance: specify transaction processing time, system response time, max amount of concurrent users that the system can handle…*

**4. Product Upgrades**

// *TODO: Try to analyze further, is there any improvement for your product? Is there any new function will be added to your product soon?*

*Try to list out the improvement or any new function that will be added to your current product to make it more beneficial to users. For each improvement/added function, provide a brief description.*