

Freelancing Management System
FMS

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1 System Description

This is a *Freelancing Management System*, a system which allows *Customers* and *Freelancers* to find one-another easily. It manages the processes from finding workers, verifying them, engaging, paying up to rating. Let us take you on an interesting tour into the *system actors*, every one of them sees the system differently according to their role.

2 System Actors

2.1 Root

The Root is the owner of the system. He is the one who set it up for the first time with a special root access from him. The Root also specifies the system settings like penalties, bonuses on the rate and ratio of the profit on each Employer-Freelancer deal. Besides, He add *Admins* to manage the system.

2.2 Admin

Admins are the managers of the system. They have *The managers access* over the hole system, they can *delete* or *ban* any consumer account. Also, They can view some Statistics like the number of the Employers and Freelancer. They can *Receive* and *Reply Complaints* of the consumers as well. Admins can view reports about the system i.e *economic, consumers, blocked, ...* reports.

2.3 Freelancer

Freelancers are the workers of the system. Every one them have an *Profile* where he can share his experience, and work examples. His *Profile* contains enough information so that the Employer can decide wherever he is going to invest in that *freelancer* or not. There is a *Rate* in the *Freelancers Profile* is computed with very accurate algorithms based on the *Employers Feedback* and how commitment is the Freelancer! *Freelancer* are paid per hour, and it is in the *profile*. A *Freelancer* can review the *Employers' Profiles* and their *Tasks* which they can apply for it and make special offers for the *Employers*.

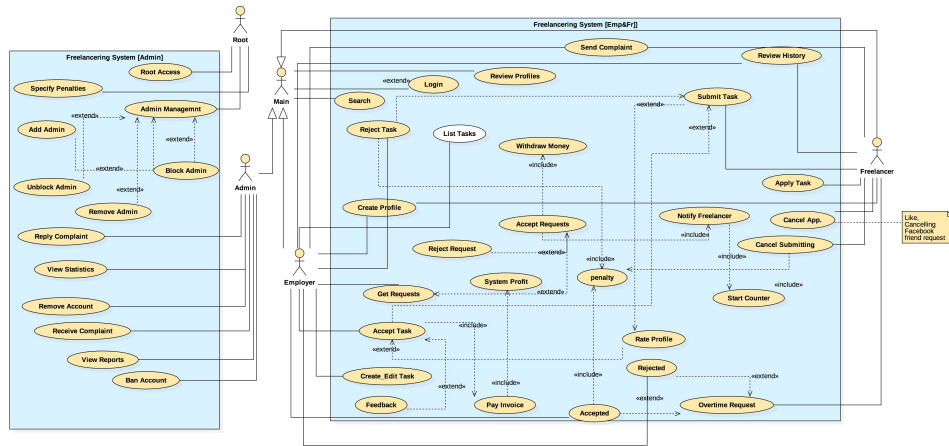
2.4 Employer

Employer are the stockholders. They also have their *profiles*. An *Employer* can create a *Task* or a *list of tasks* seen by interested *Freelancers*. Then the *Employer* can choose the best *Freelancer* among who applied. Once the *Employer* accepts the *offer* the money is *withdrawn* from his account to the pending state in the system. After the *task* is finished, the *Employer* can *rate* and *feedback* the *freelancer*, and sure the freelancer is paid.

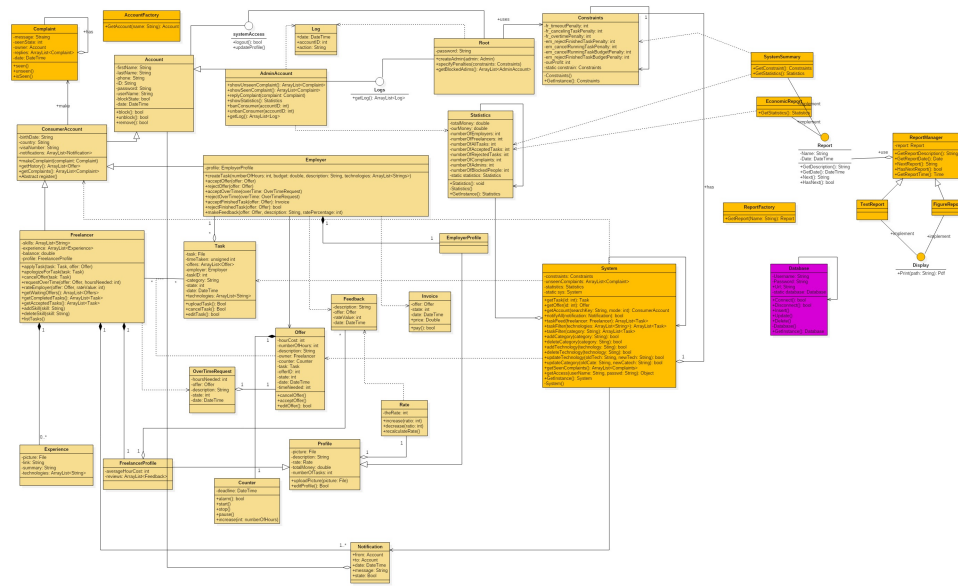
3.1 ERD



3.2 Use Case



3.3 Class Diagram



3.4 System Sequence Diagrams

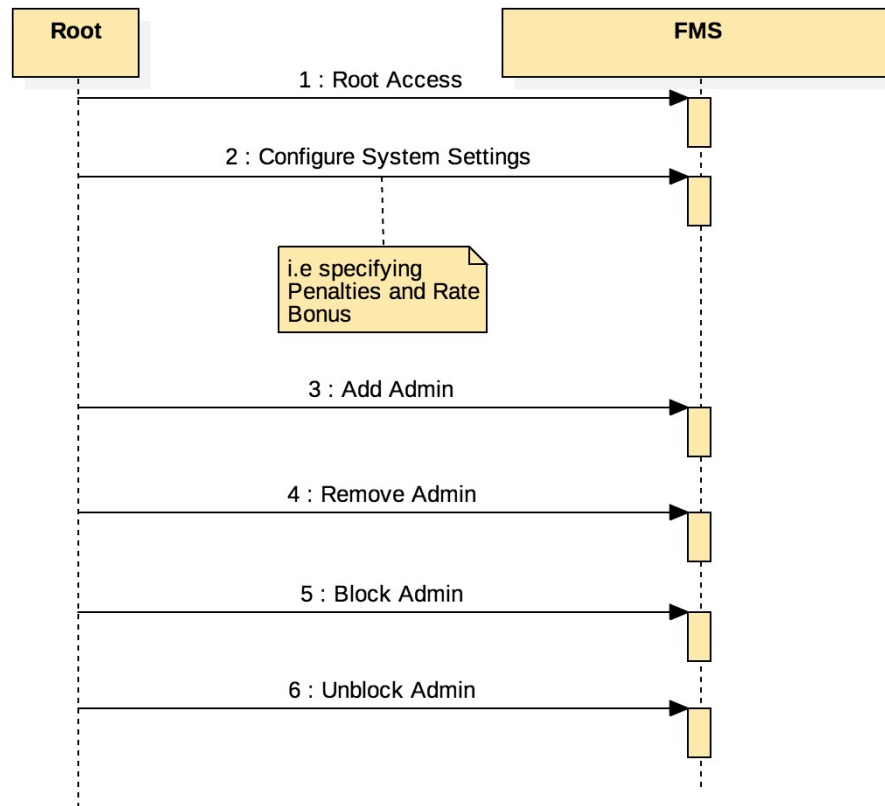


Figure 1: "System Sequence of the Root"

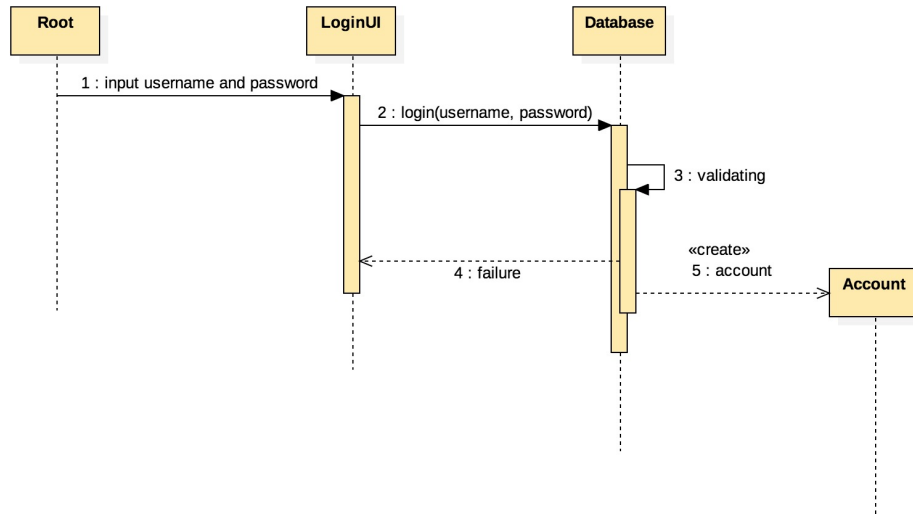


Figure 2: System Sequence Diagram of the *Root*

4 Use Case – *in detail*

4.1 Access Root

Use Case Name	<i>Root Access</i>
Actors	<i>Root — Exclusively</i>
Pre-condition	<i>1. At configuration time for the very first use.</i> <i>2. Root is given a default password.</i>
Basic Flow	<i>1. Open the System</i> <i>2. Enter 'root' in the user name text box</i> <i>3. Enter '0000' in the password text box</i>
Post-condition	<i>have full control of FMS settings</i>

4.2 Specify Penalties

Use Case Name	<i>Specify Penalties</i>
Actors	<i>Root — Exclusively</i>
Pre-condition	<i>Root Access</i>
Basic Flow	<i>1. Open the system with the Root Access 2. Click on Specifies Penalties 3. Fill the Data 4. Click submit</i>
Post-condition	<i>Penalties is configurted</i>

4.3 Add Admin

Use Case Name	<i>Add Admin</i>
Actors	<i>Root — Exclusively</i>
Pre-condition	<i>Root Access</i>
Basic Flow	<i>1. Open the system with the Root Access 2. Click Add Admin 3. Specify its data 4. Click submit</i>
Post-condition	<i>Admin is added</i>

4.4 Remove Admin

Use Case Name	<i>Remove Admin</i>
Actors	<i>Root — Exclusively</i>
Pre-condition	<i>Root Access</i>
Basic Flow	<i>1. Open the system with the Root Access 2. Click Remove Admin 3. Choose the Admin [drop down list 4. Click submit</i>
Post-condition	<i>Admin is removed</i>

4.5 Block Admin

Use Case Name	<i>Block Admin</i>
Actors	<i>Root — Exclusively</i>
Pre-condition	<i>Root Access</i>
Basic Flow	<i>1. Open the system with the Root Access 2. Click Block Admin 3. Choose the Admin [drop down list 4. Click submit</i>
Post-condition	<i>Addmin is removed and is put in the block list</i>

4.6 Unblock Admin

Use Case Name	<i>Unblock Admin</i>
Actors	<i>Root — Exclusively</i>
Pre-condition	<i>Root Access</i>
Basic Flow	<ol style="list-style-type: none">1. <i>Open the system with the Root Access</i>2. <i>Click Unblock Admin</i>3. <i>Choose the Admin [drop down list</i>4. <i>Click submit</i>
Post-condition	

4.7 Search Freelancers

Use Case Name	<i>Search Freelancers</i>
Actors	<i>Employer — Exclusively</i>
Pre-condition	<i>Employer Access</i>
Basic Flow	<ol style="list-style-type: none">1. <i>Open the system with the Employeeer Access</i>2. <i>Click Search About Freelancers</i>3. <i>set the technologies that you want</i>4. <i>Click submit</i>
Post-condition	<i>Show All freelancers that there Skills mathch with your Technologies</i>

4.8 Search about Freelancer

Use Case Name	<i>Search about Freelancer</i>
Actors	<i>Employer — Exclusively</i>
Pre-condition	<i>Employer Access</i>
Basic Flow	<ol style="list-style-type: none">1. <i>Open the system with the Employer Access</i>2. <i>Click Search About specific Freelancer</i>3. <i>set his username or mail or phone</i>4. <i>Click submit</i>
Post-condition	<i>Show freelancer profile</i>

4.9 Review Employer history

Use Case Name	<i>Review Employer history</i>
Actors	<i>Employer — Exclusively</i>
Pre-condition	<i>Employer Access</i>
Basic Flow	<i>1. Open the system with the Employer Access 2. Click Show My history 3. Click submit</i>
Post-condition	<i>Show all your Tasks and offers and his modes</i>

4.10 Reject offer submitting

Use Case Name	<i>Reject offer submitting</i>
Actors	<i>Employer — Exclusively</i>
Pre-condition	<i>1. Employer Access</i> <i>2. Task is finished but Employer need to reject it</i>
Basic Flow	<i>1. Open the system with the Employee Access</i> <i>2. Check submitting Offer</i> <i>3. Click reject this Offer</i>
Post-condition	<i>1. Take rejected</i> <i>2. Notify Freelancer</i> <i>3. Apply penalty</i>

4.11 Accept Offer

Use Case Name	<i>Accept Offer</i>
Actors	<i>Employer — Exclusively</i>
Pre-condition	<i>1. Employer Access 2. Task that have offers to do it</i>
Basic Flow	<i>1. Open the system with the Employer Access 2. Check Take Offer 3. select and Click show offer 4. Click Accept Offer</i>
Post-condition	<i>1. change Tase mode 2. Notify Freelancer to start 3. pay deposit</i>

4.12 Accept Submitting Offer

Use Case Name	<i>Accept submitting Offer</i>
Actors	<i>Employer — Exclusively</i>
Pre-condition	<i>1. Employer Access</i>
Basic Flow	<i>2. Task is finish and freelancer upload his work and task wait to submit from Employer</i> <i>1. Open the system with the Employer Access</i> <i>2. select Offer that wait submit</i> <i>3. Click submit offer and finish task</i> <i>4. Pay invoice</i> <i>5. Rate and FeedBack Freelancer profile</i>
Post-condition	<i>1. change account balance</i> <i>2. re-Count to Freelancer profile</i> <i>3. receive work</i>

4.13 Reply Complaints

Use Case Name	<i>Reply Complaints</i>
Actors	<i>Admin</i>
Pre-condition	<i>1. Admin Access</i> <i>2. Freelancer/Employer has sent a Complaint</i>
Basic Flow	<i>1. Open the system with the Admin Access</i> <i>2. Select Show All Complaints from the sidebar</i> <i>3. Select the complaint and click to reply</i> <i>4. Write your reply and submit</i>
Post-condition	<i>A notification has sent to the sender of the commitment</i>

4.14 View Statistics

Use Case Name	<i>View Statistics</i>
Actors	<i>Admin</i>
Pre-condition	<i>1. Admin Access</i> <i>2. Freelancer/Employer has sent a Complaint</i>
Basic Flow	<i>1. Open the system with the Admin Access</i> <i>2. Select View Statistics from the sidebar</i> <i>3. Now, You can select one of the statistics perspective</i>
Post-condition	<i>A graph is appeared</i>

4.15 Remove Account

Use Case Name	<i>Remove Account</i>
Actors	<i>Admin</i>
Pre-condition	<i>1. Admin Access 2. Freelancer/Employer has sent a Complaint</i>
Basic Flow	<i>1. Open the system with the Admin Access 2. Select Show All Freelancer/Employer from the sidebar 3. Select the one you want to removed 4. Select Remove Account 5. Confirm!</i>
Post-condition	<i>An Account it removed</i>

4.16 Receive Complaint

Use Case Name	<i>Receive Complaint</i>
Actors	<i>Admin</i>
Pre-condition	<i>1. Admin Access 2. Freelancer/Employer has sent a Complaint</i>
Basic Flow	<i>1. Open the system with the Admin Access 2. You will find a new notification</i>
Post-condition	<i>You've been notified</i>

4.17 View Reports

Use Case Name	<i>View Reports</i>
Actors	<i>Admin</i>
Pre-condition	<i>1. Admin Access 2. Freelancer/Employer has sent a Complaint</i>
Basic Flow	<i>1. Open the system with the Admin Access 2. Select View Reports 3. Select the Subject of the Report</i>
Post-condition	<i>You have an up-to-date report, you can get the PDF version</i>

4.18 Ban Account

Use Case Name	<i>Ban Account</i>
Actors	<i>Admin</i>
Pre-condition	<i>1. Admin Access 2. Freelancer/Employer has sent a Complaint</i>
Basic Flow	<i>1. Open the system with the Admin Access 2. Select Show All Freelancer/Employer from the sidebar 3. Select the one you want to Ban 4. Select Ban Account 4. Confirm!</i>
Post-condition	<i>An Account is Banned</i>

5 Design Patterns

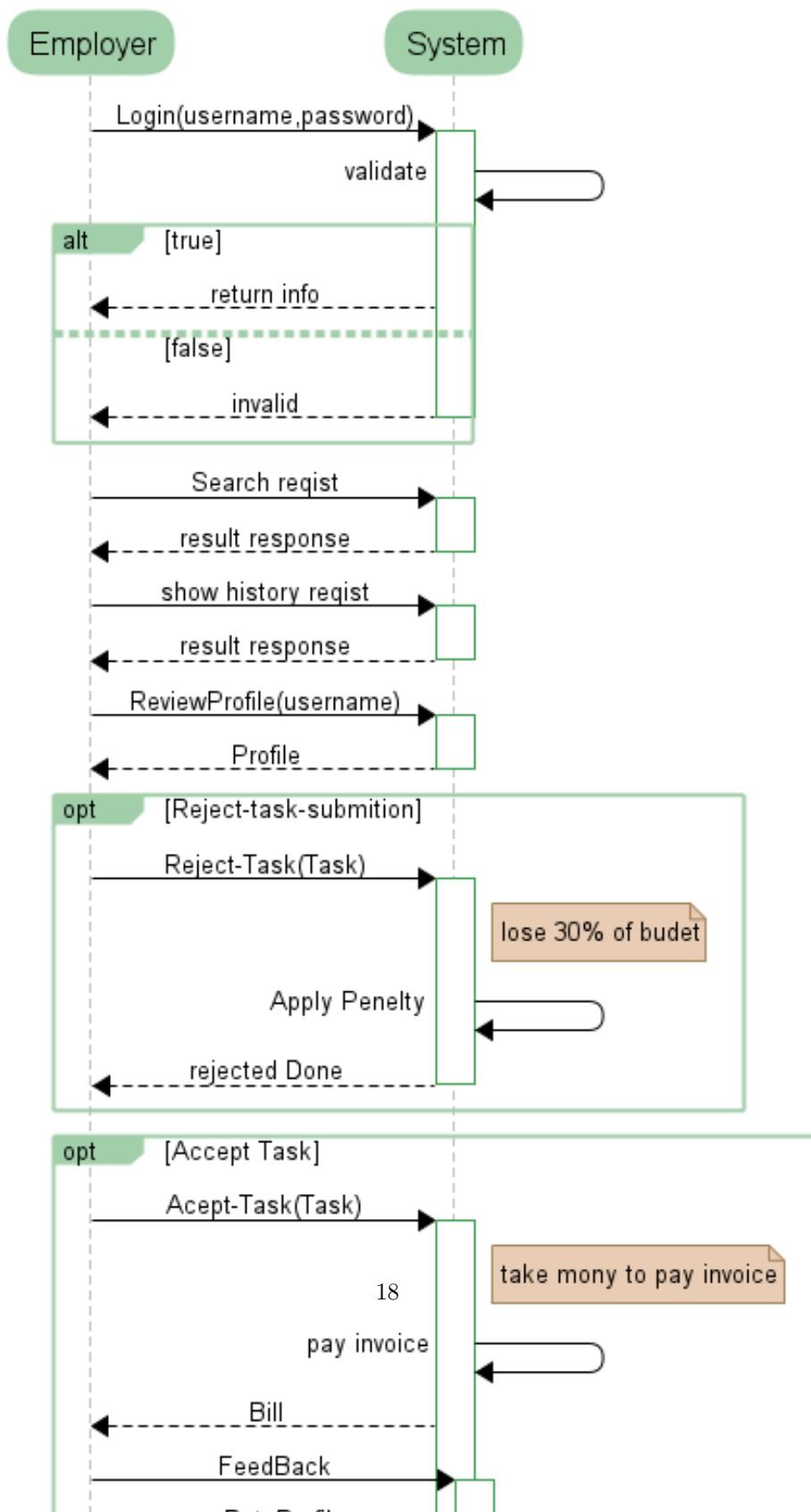
5.1 Singleton Design Pattern

Context	
Problem	
Solution	
Post-condition	

6 Call Us

THE END

Employer SSD



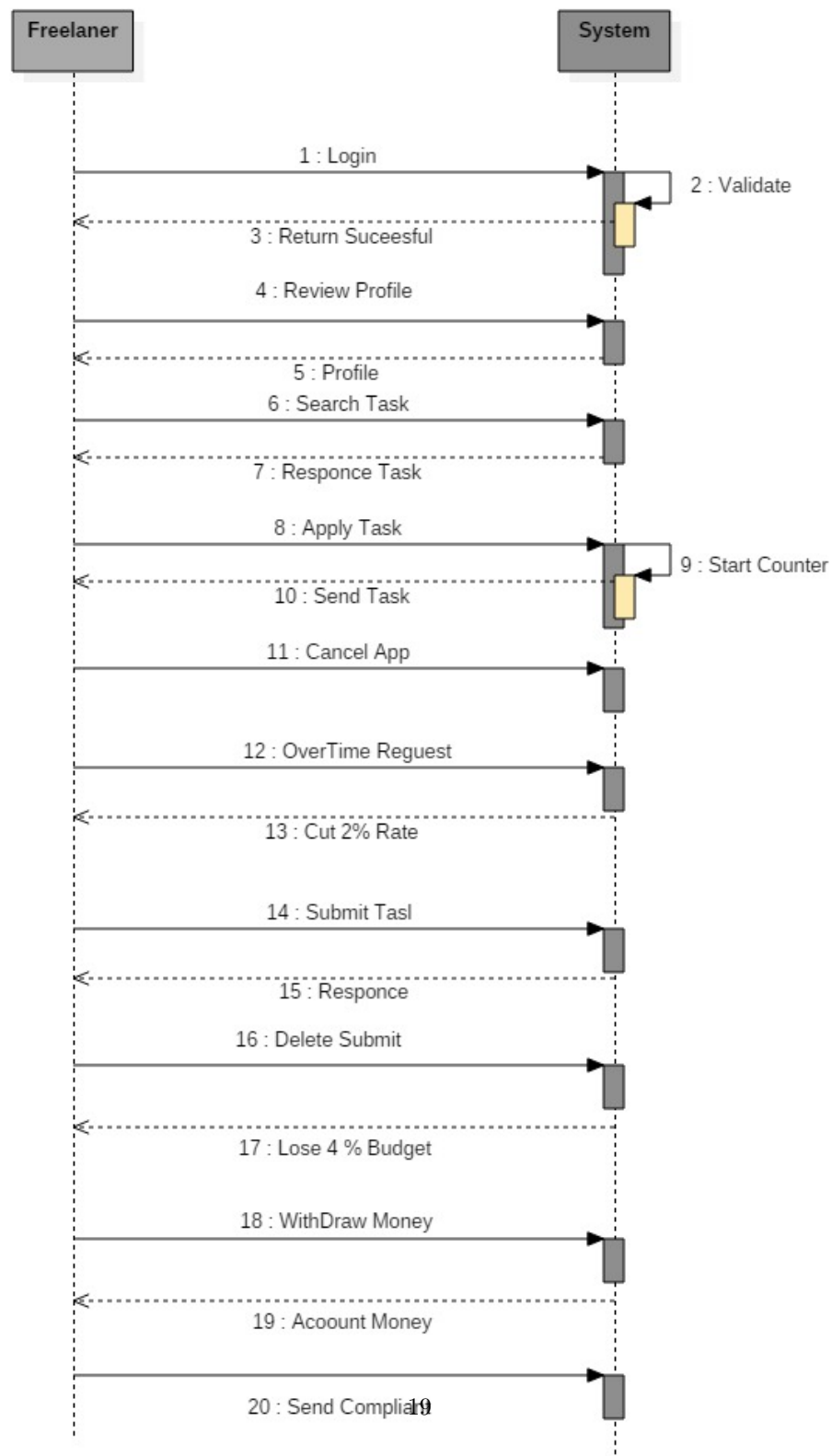


Figure 4: System Sequence Diagram of the *Freelancer*

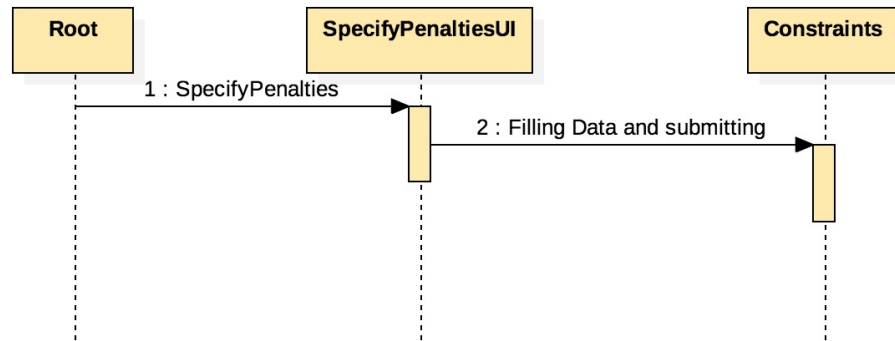
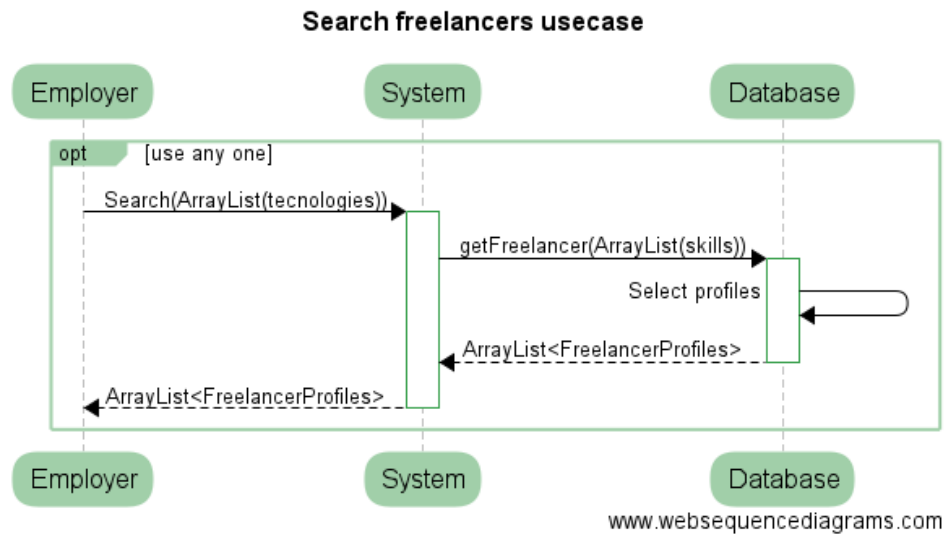
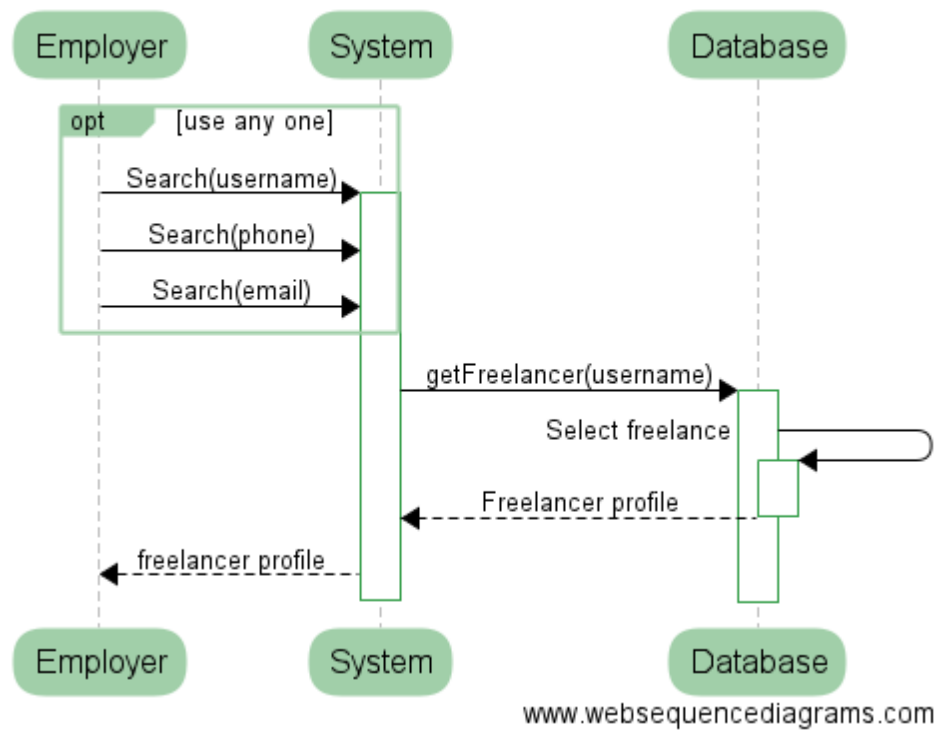


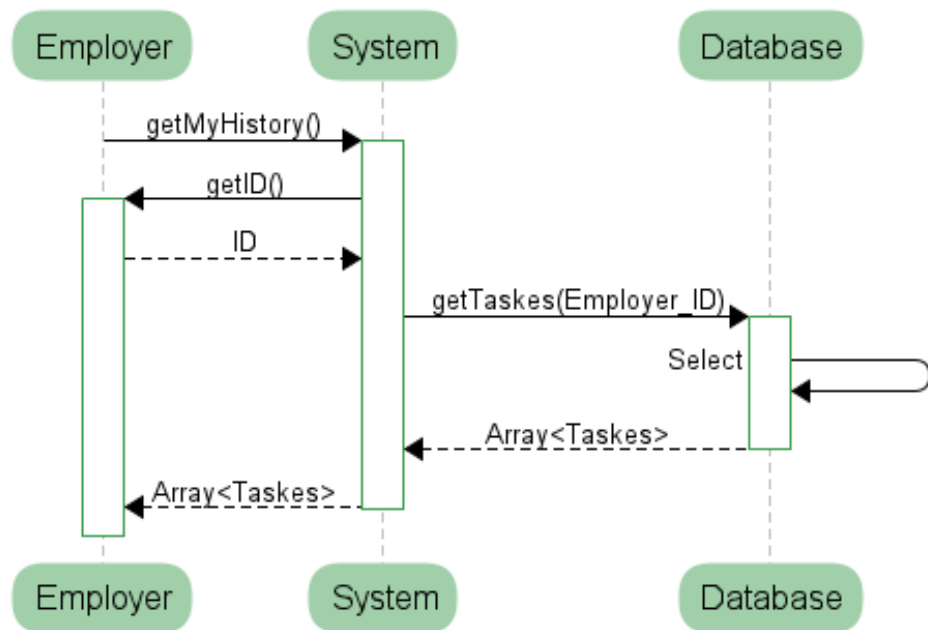
Figure 5: Sequence Diagram of the *Specifying Penalties*



review freelancer usecase

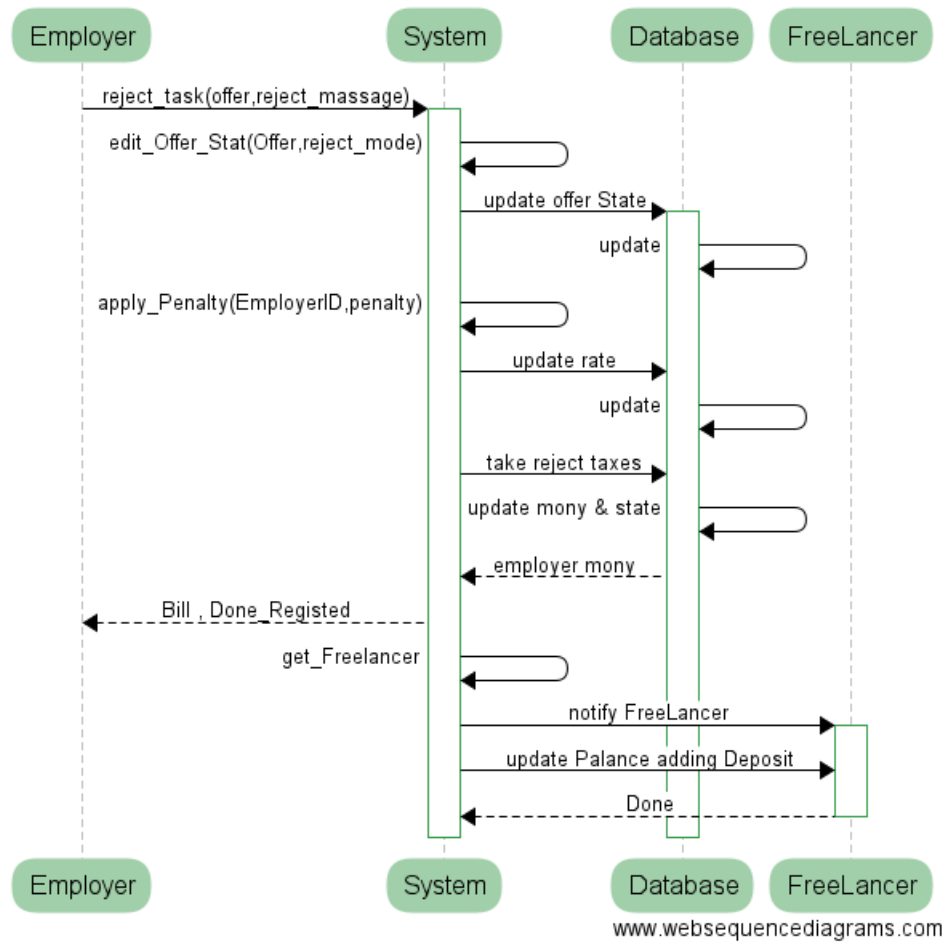


Review history usecase



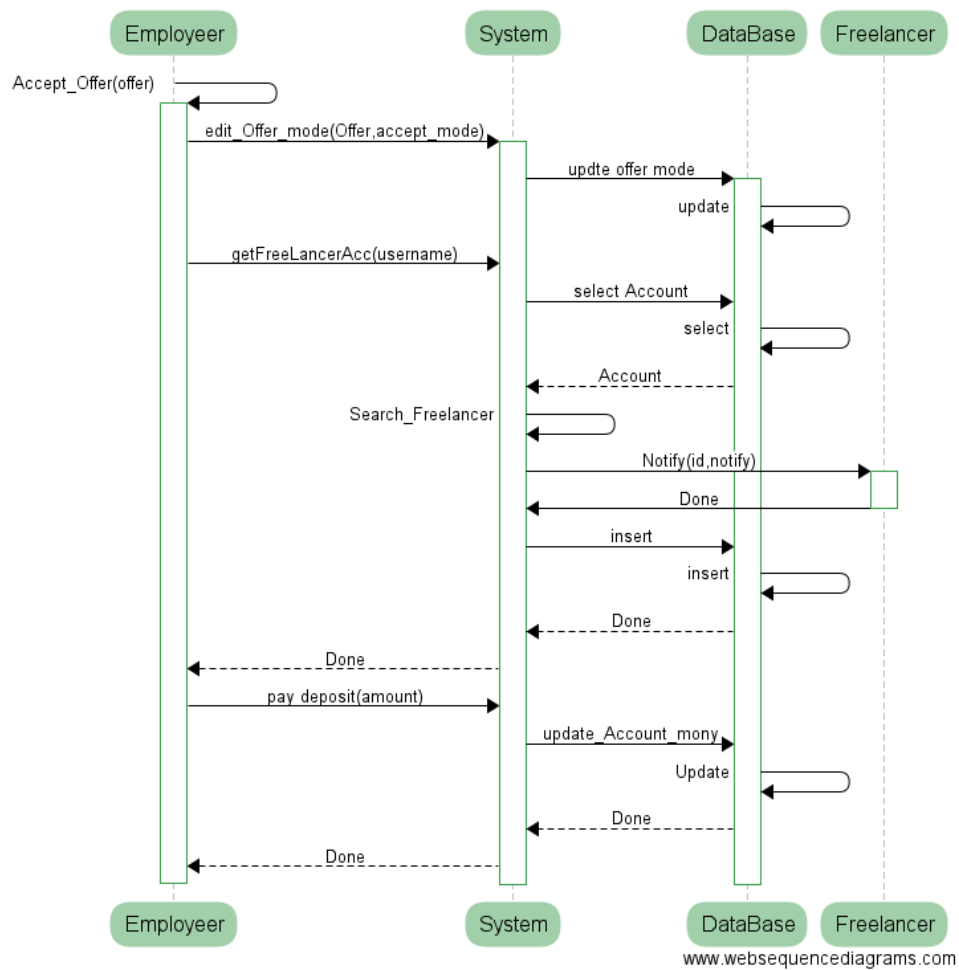
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Reject Offer submitting usecase



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Accept_Offer usecase



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