

# Freelancing Management System

## FMS

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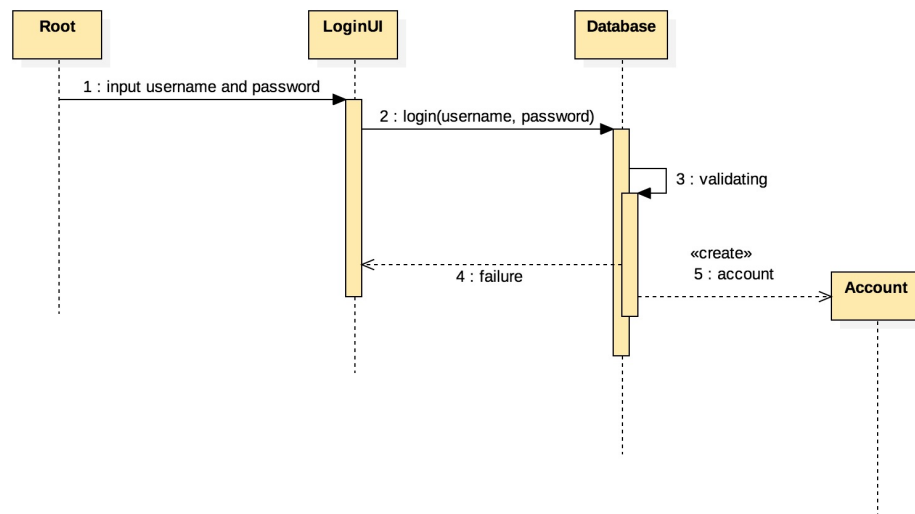


Figure 1: System Sequence Diagram of the *Root*

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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

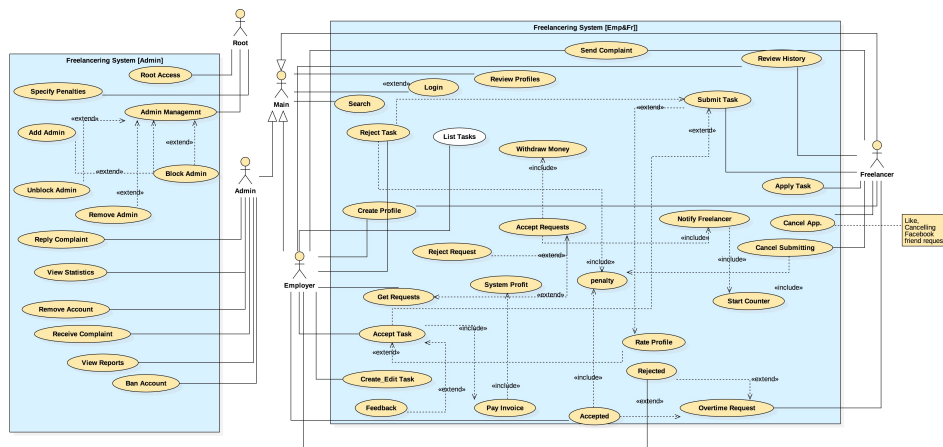
*Freelancers* are the workers of the system. Every one them have an *Profile* where he can share his experience, and work examples. His *Profile* contains enough information so that the Employer can decide wherever he is going to invest in that *freelancer* or not. There is a *Rate* in the *Freelancers 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 Diagrams

## 4 Use Case – *The Big picture*



## 5 Use Case – *in detail*

## 5.1 Access Root

<b>Use Case Name</b>	<i>Root Access</i>
<b>Actors</b>	<i>Root — Exclusively</i>
<b>Pre-condition</b>	<ol style="list-style-type: none"> <li>1. At configuration time for the very first use.</li> <li>2. Root is given a default password.</li> </ol>
<b>Basic Flow</b>	<ol style="list-style-type: none"> <li>1. Open the System</li> <li>2. Enter ‘root’ in the user name text box</li> <li>3. Enter ‘0000’ in the password text box</li> </ol>
<b>Post-condition</b>	<i>have full control of FMS settings</i>

## 5.2 Specify Penalties

<b>Use Case Name</b>	<i>Specify Penalties</i>
<b>Actors</b>	<i>Root — Exclusively</i>
<b>Pre-condition</b>	<i>Root Access</i>
<b>Basic Flow</b>	<ol style="list-style-type: none"> <li><i>1. Open the system with the Root Access</i></li> <li><i>2. Click on Specifies Penalties</i></li> <li><i>3. Fill the Data</i></li> <li><i>4. Click submit</i></li> </ol>
<b>Post-condition</b>	<i>Penalties is configured</i>

### 5.3 Add Admin

<b>Use Case Name</b>	<i>Add Admin</i>
<b>Actors</b>	<i>Root — Exclusively</i>
<b>Pre-condition</b>	<i>Root Access</i>
<b>Basic Flow</b>	<ol style="list-style-type: none"><li>1. <i>Open the system with the Root Access</i></li><li>2. <i>Click Add Admin</i></li><li>3. <i>Specify its data</i></li><li>4. <i>Click submit</i></li></ol>
<b>Post-condition</b>	<i>Admin is added</i>

### 5.4 Remove Admin

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

### 5.5 Block Admin

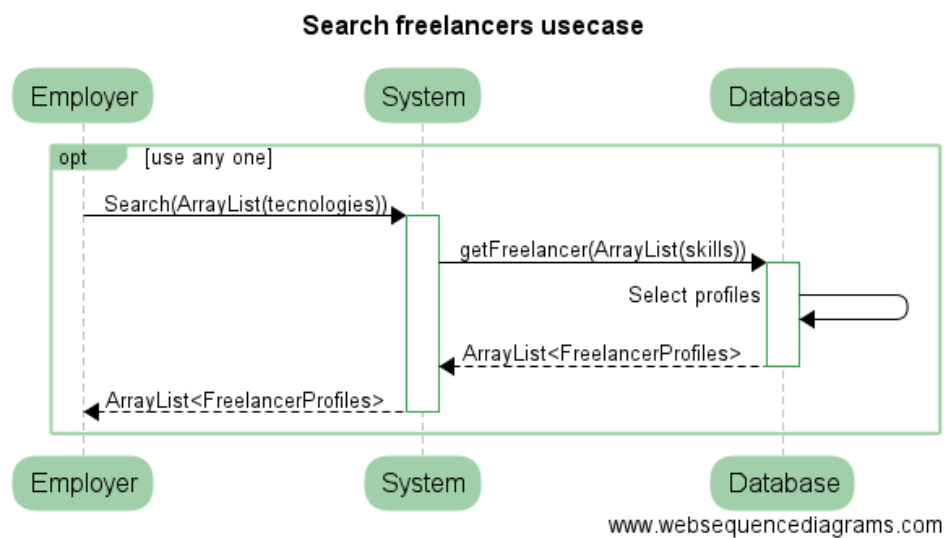
<b>Use Case Name</b>	<i>Block Admin</i>
<b>Actors</b>	<i>Root — Exclusively</i>
<b>Pre-condition</b>	<i>Root Access</i>
<b>Basic Flow</b>	<ol style="list-style-type: none"><li>1. <i>Open the system with the Root Access</i></li><li>2. <i>Click Block Admin</i></li><li>3. <i>Choose the Admin [drop down list</i></li><li>4. <i>Click submit</i></li></ol>
<b>Post-condition</b>	<i>Addmin is removed and is put in the block list</i>

### 5.6 Unblock Admin

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

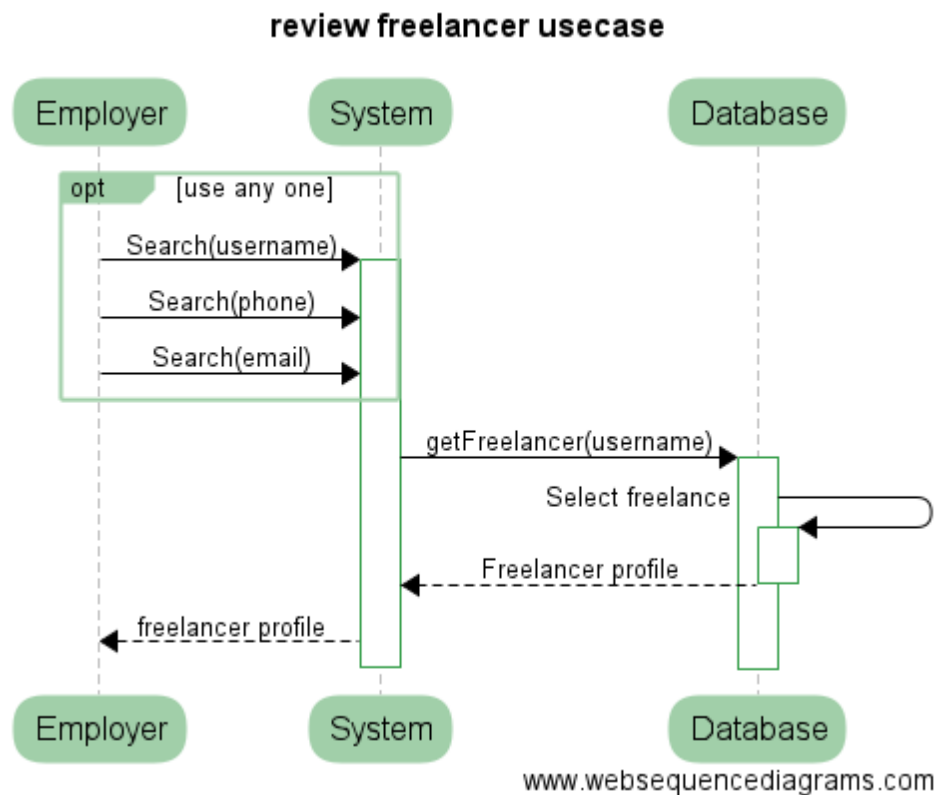
## 5.7 Search Freelancers

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



## 5.8 Search about Freelancer

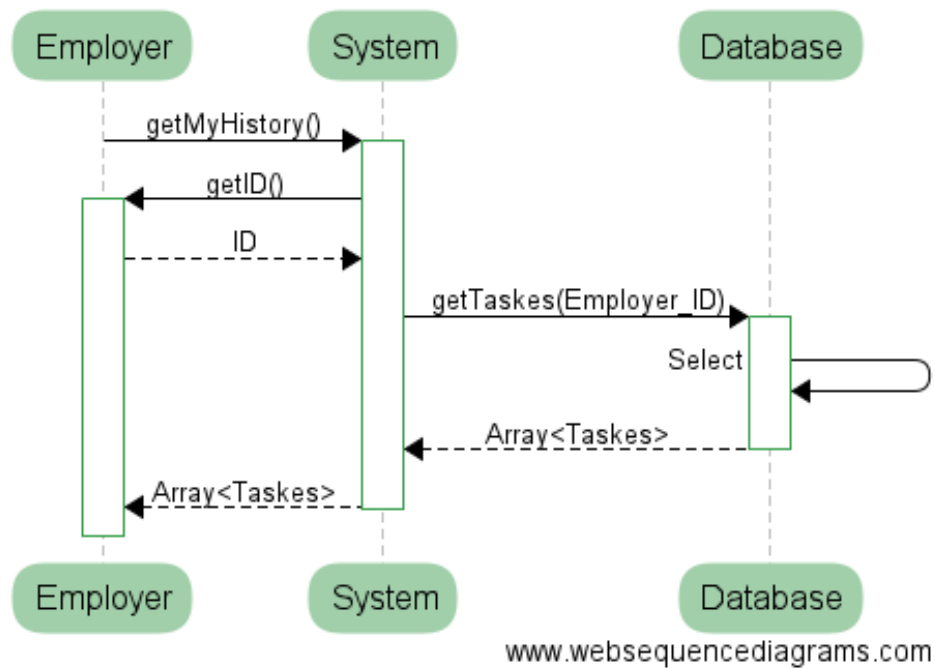
<b>Use Case Name</b>	<i>Search about Freelancer</i>
<b>Actors</b>	<i>Employer — Exclusively</i>
<b>Pre-condition</b>	<i>Employer Access</i>
<b>Basic Flow</b>	<ol style="list-style-type: none"> <li>1. Open the system with the Employer Access</li> <li>2. Click Search About specific Freelancer</li> <li>3.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



## 5.9 Review Employer history

<b>Use Case Name</b>	<i>Review Employer history</i>
<b>Actors</b>	<i>Employer — Exclusively</i>
<b>Pre-condition</b>	<i>Employer Access</i>
<b>Basic Flow</b>	<ol style="list-style-type: none"> <li>1. Open the system with the Employer Access</li> <li>2. Click Show My history</li> <li>3. Click submit</li> </ol>
<b>Post-condition</b>	<i>Show all your Tasks and offers and his modes</i>

### Review history usecase

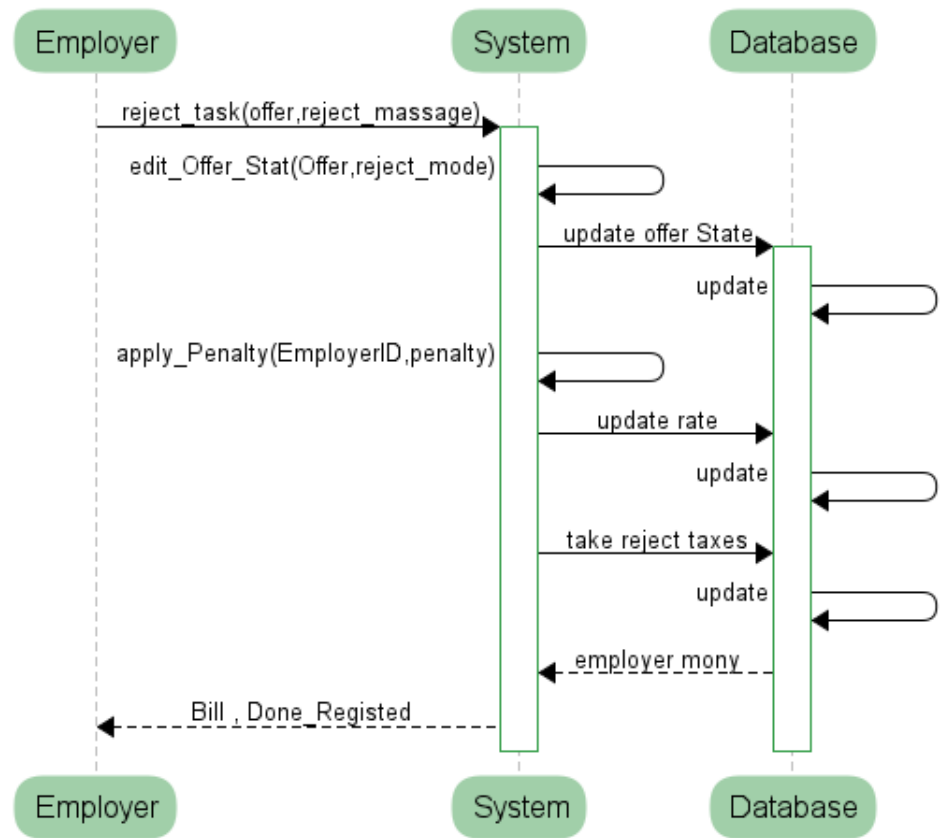




## 5.10 Reject offer submitting

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

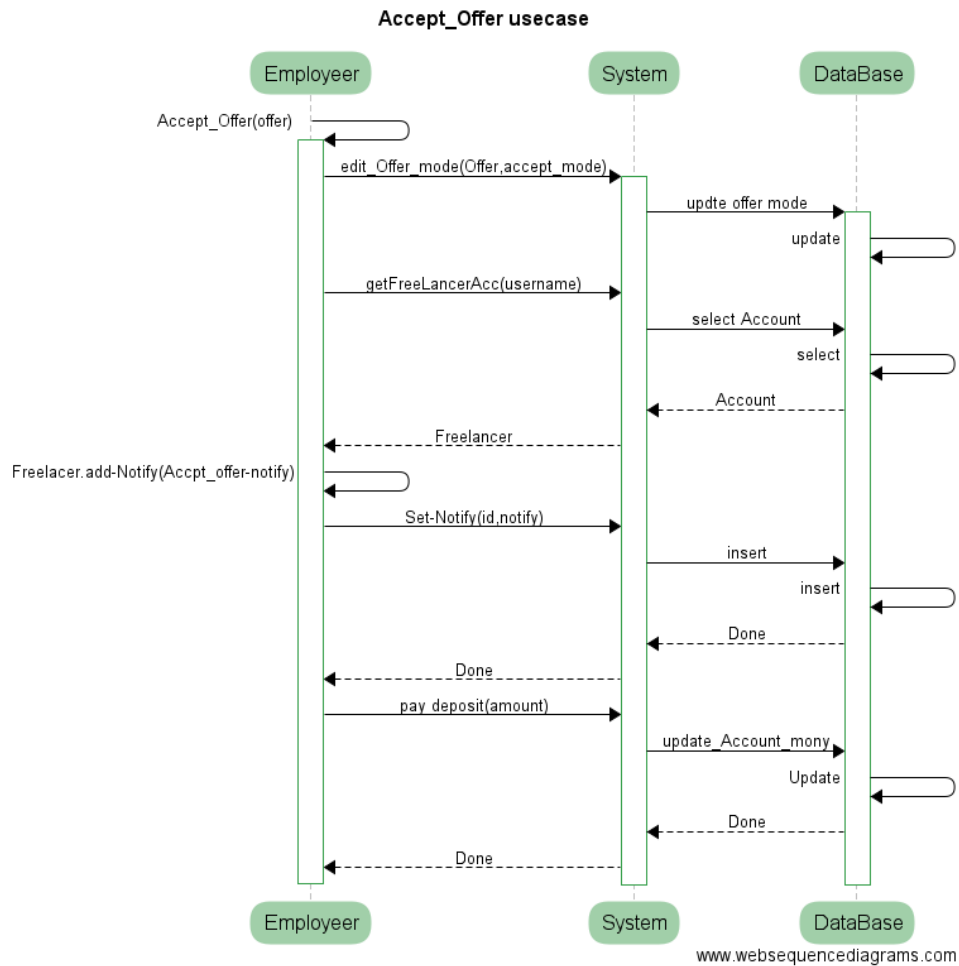
**Reject Offer submitting usecase**



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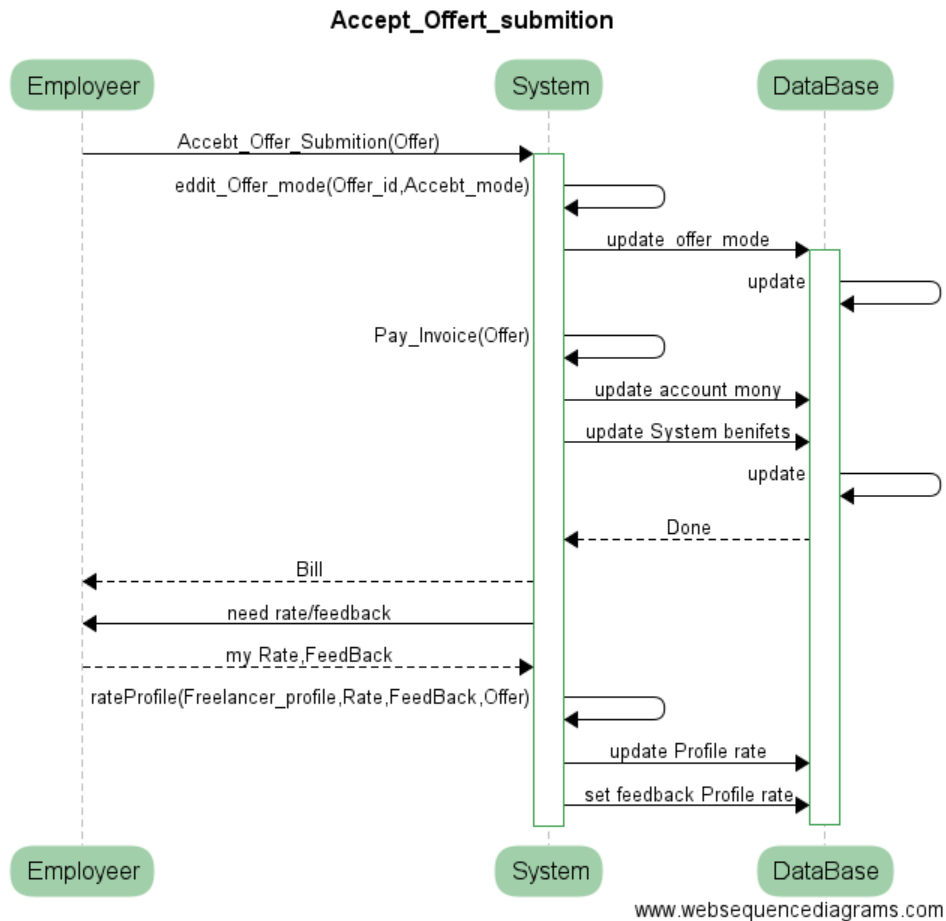
## 5.11 Accept Offer

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



## 5.12 Accept submitting Offer

<b>Use Case Name</b>	<i>Accept submitting Offer</i>
<b>Actors</b>	<i>Employer — Exclusively</i>
<b>Pre-condition</b>	<i>1. Employer Access</i> <i>2. Task is finish and freelancer upload his work and task wait to submit from Employer</i>
<b>Basic Flow</b>	<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>
<b>Post-condition</b>	<i>1. change account balance</i> <i>2. re-Count to Freelancer profile</i> <i>3. receive work</i>



### 5.13 Reply Complaints

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

### 5.14 View Statistics

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

### 5.15 Remove Account

<b>Use Case Name</b>	<i>Remove Account</i>
<b>Actors</b>	<i>Admin</i>
<b>Pre-condition</b>	<i>1. Admin Access 2. Freelancer/Employer has sent a Complaint</i>
<b>Basic Flow</b>	<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>
<b>Post-condition</b>	<i>An Account it removed</i>

### 5.16 Receive Complaint

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

### 5.17 View Reports

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

### 5.18 Ban Account

<b>Use Case Name</b>	<i>Ban Account</i>
<b>Actors</b>	<i>Admin</i>
<b>Pre-condition</b>	<i>1. Admin Access 2. Freelancer/Employer has sent a Complaint</i>
<b>Basic Flow</b>	<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>
<b>Post-condition</b>	<i>An Account is Banned</i>

## 6 Design Patterns

### 6.1 Singleton Design Pattern

<b>Context</b>	
<b>Problem</b>	
<b>Solution</b>	
<b>Post-condition</b>	

## 7 Call Us