

National Institute of Technology Calicut

Department of Computer Science and Engineering



Design Document

Acethexam

Team 5

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1 Introduction

1.1 Purpose of the Document

The Purpose of this Document is to convey the Design of Acethexam System using Several modeling Diagrams namely Class Diagrams, Sequence Diagrams, E-R Diagrams, Activity Diagrams taking into consideration the SRS of the system.

2 Class Diagram

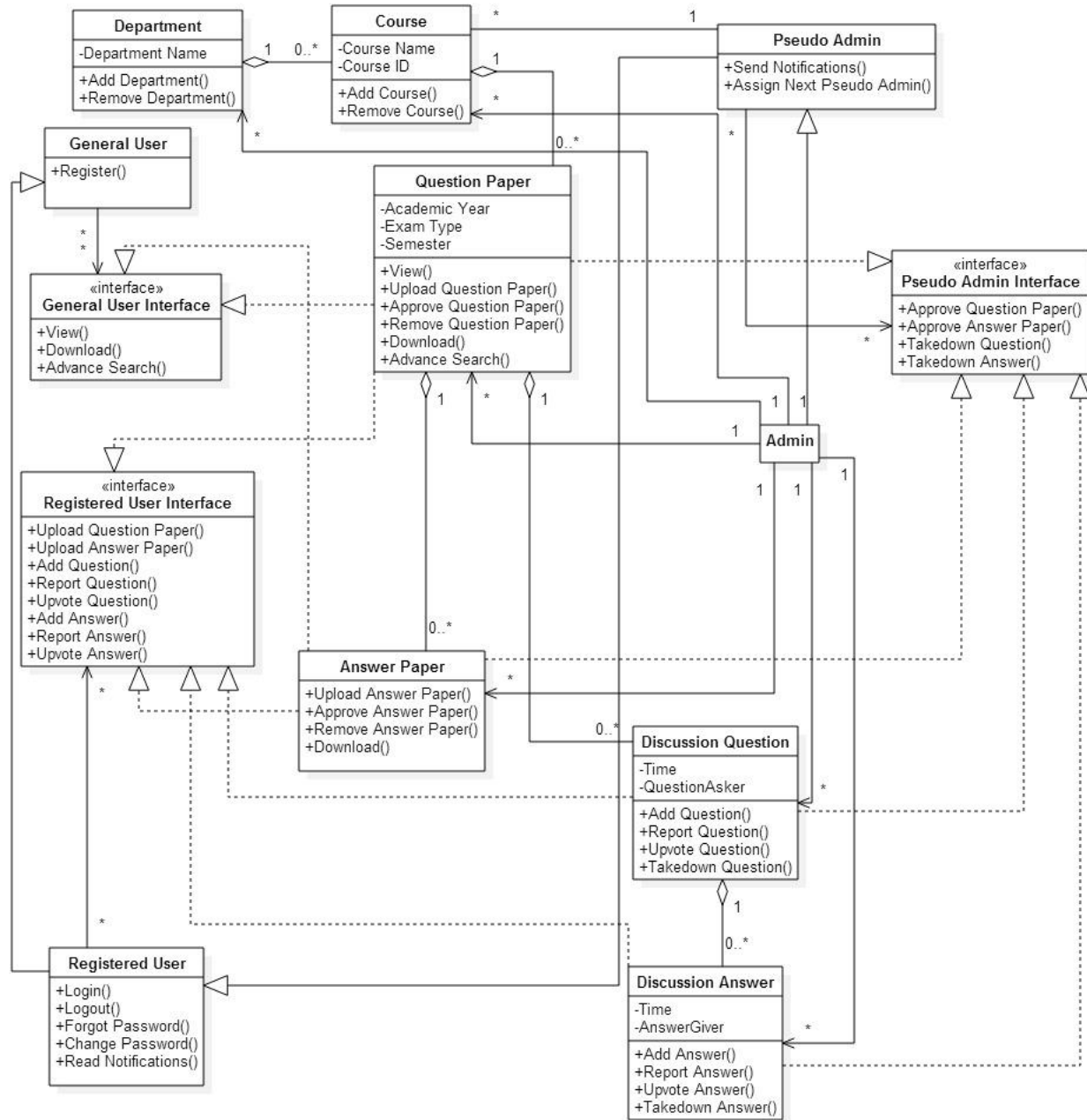


Figure 2-1

3 Sequence Diagrams

3.1 View/Search/Download

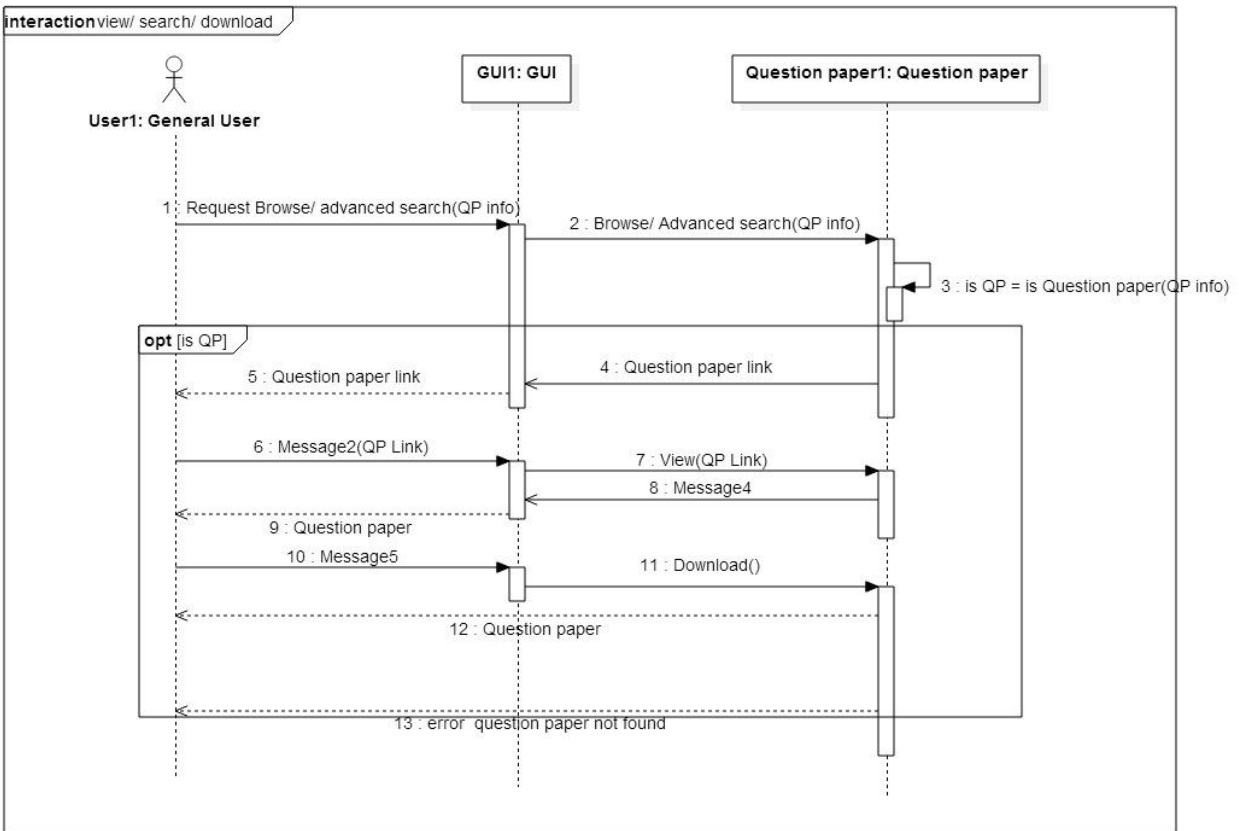


Figure 3-1

3.2 Register

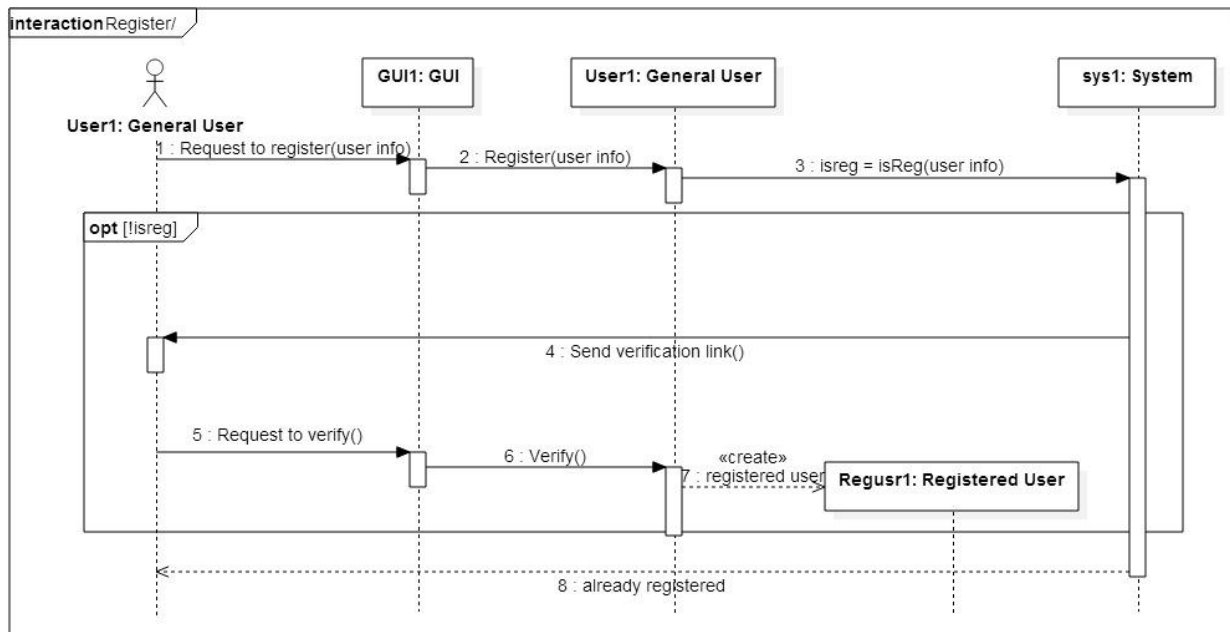


Figure 3-2

3.3 Login/Logout/Change Password

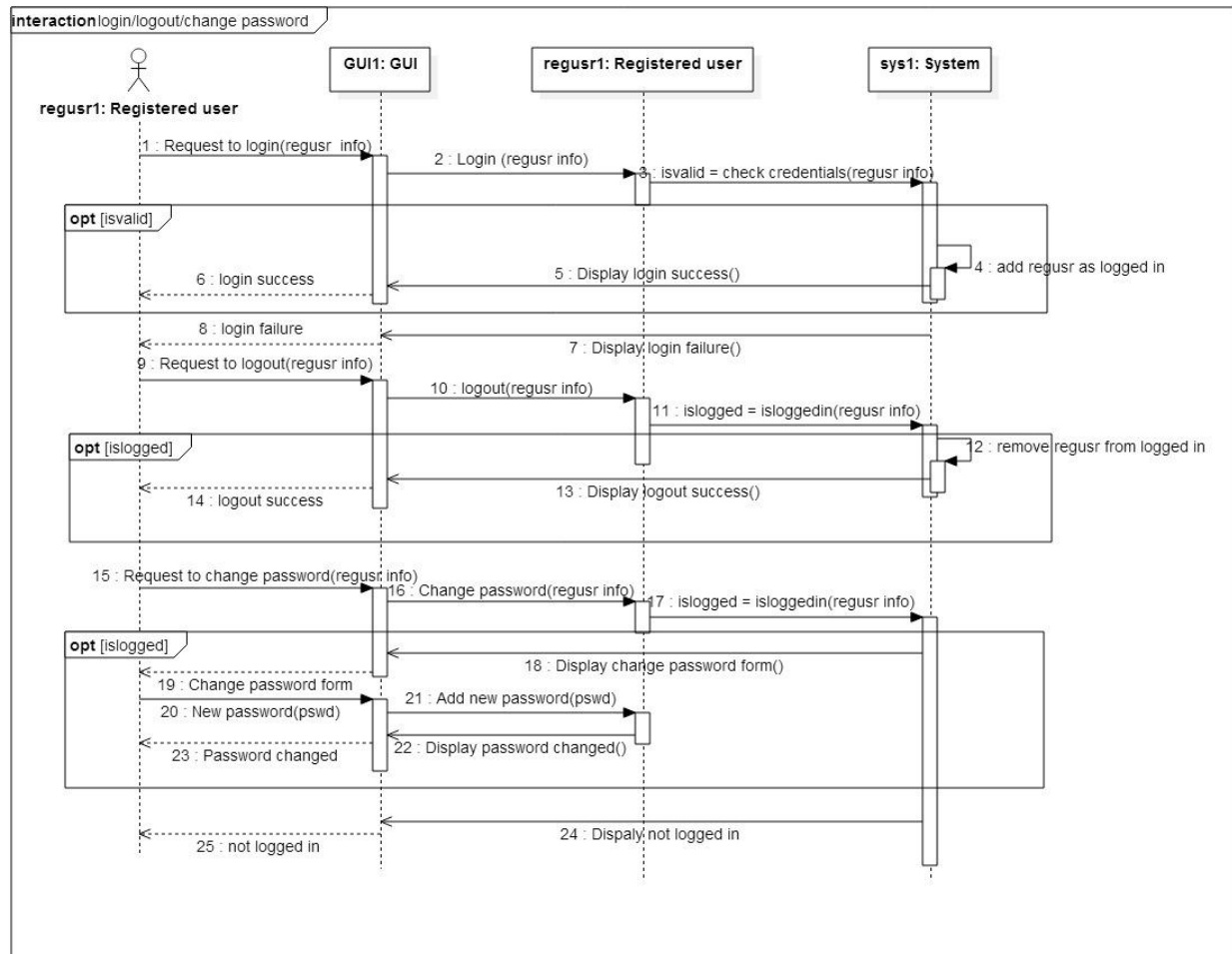


Figure 3-3

3.4 Forgot Password

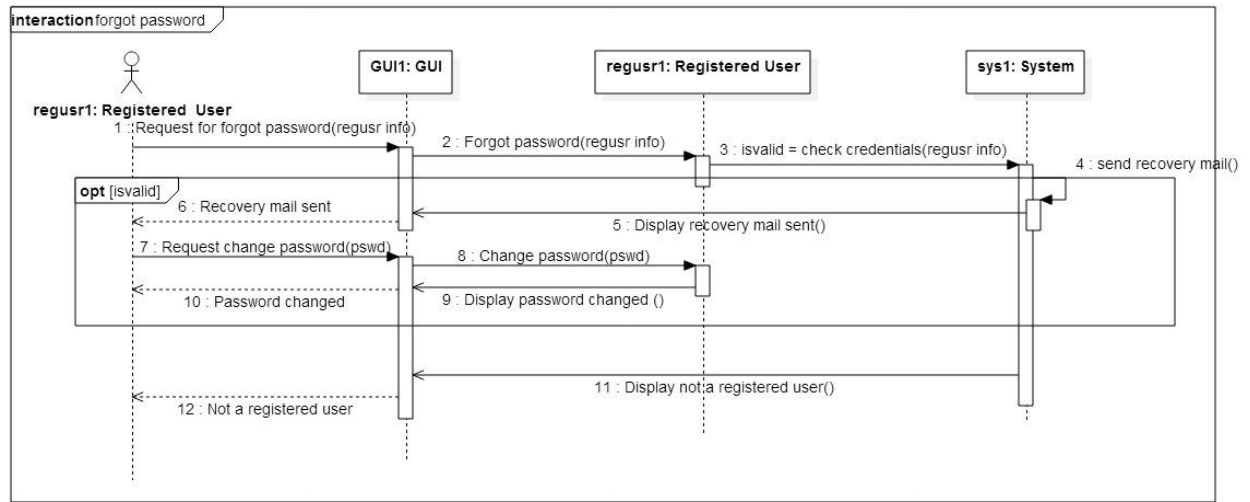


Figure 3-4

3.5 Upload

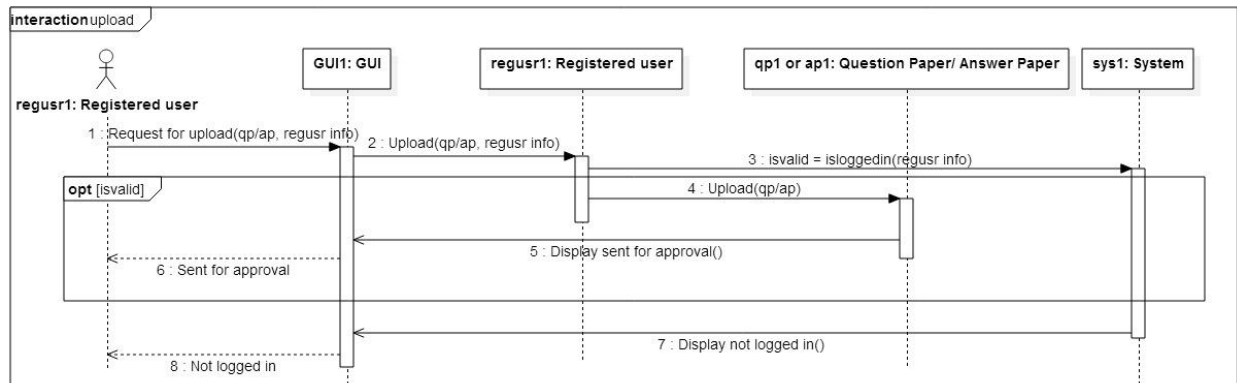


Figure 3-5

3.6 Add Question/Answer

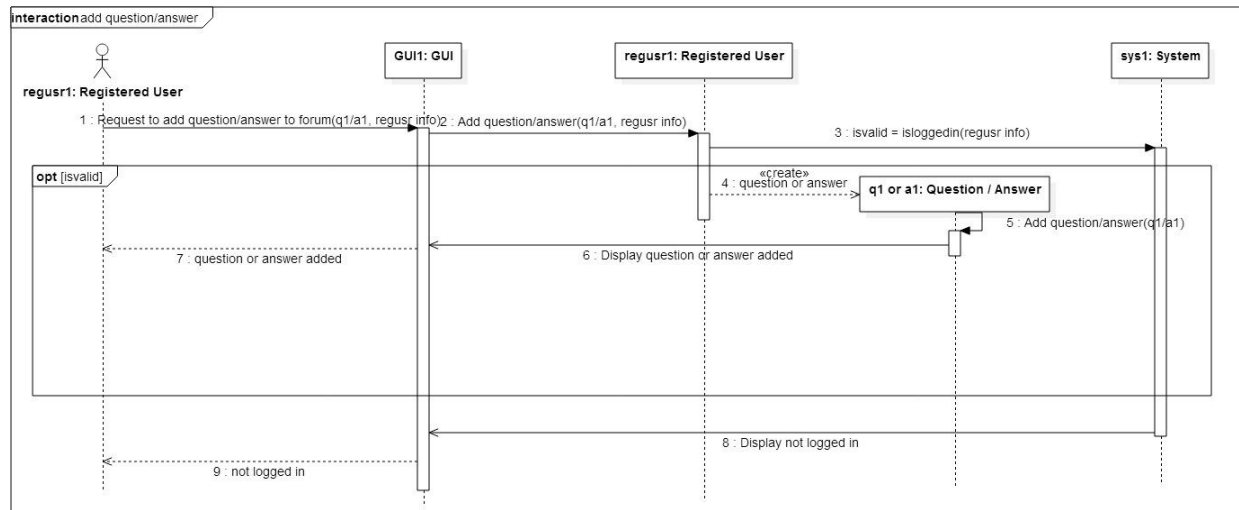


Figure 3-6

3.7 Read Notifications

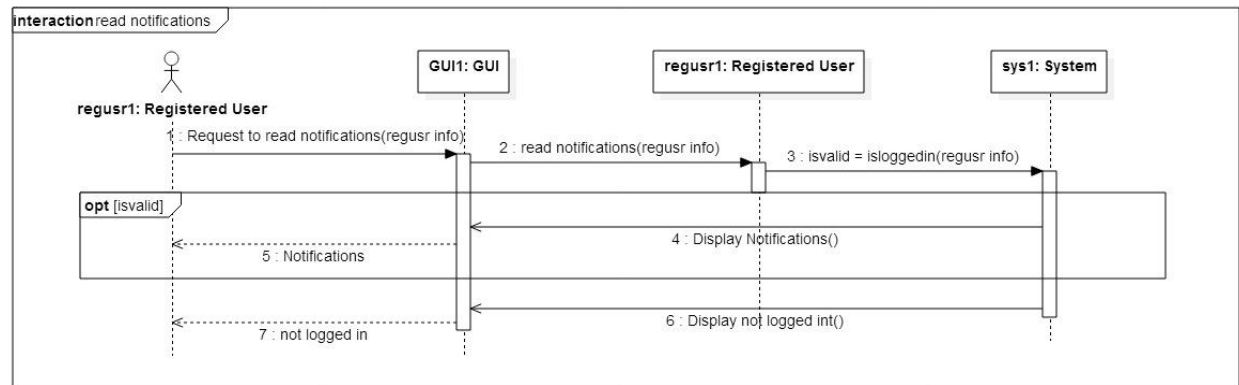


Figure 3-7

3.8 Upvote/Report

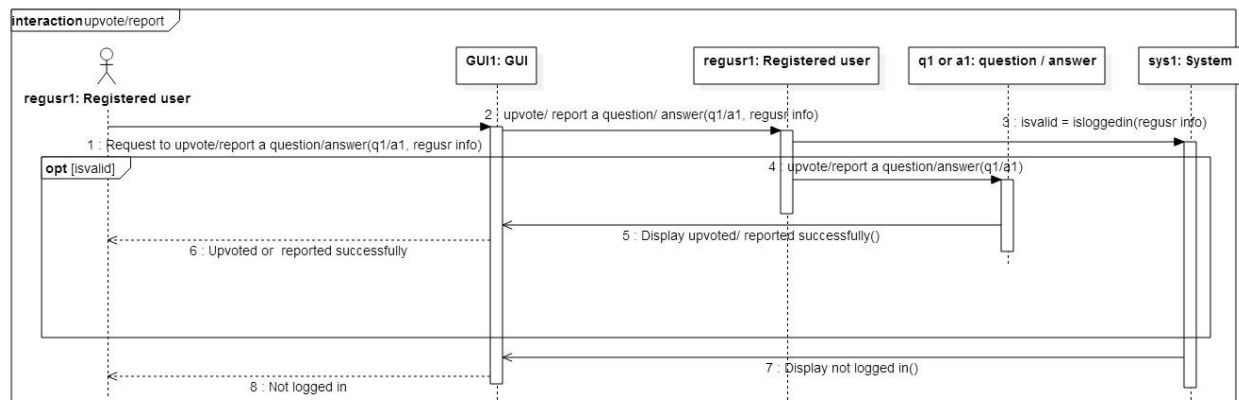


Figure 3-8

3.9 Approve Question Paper/Answer Paper

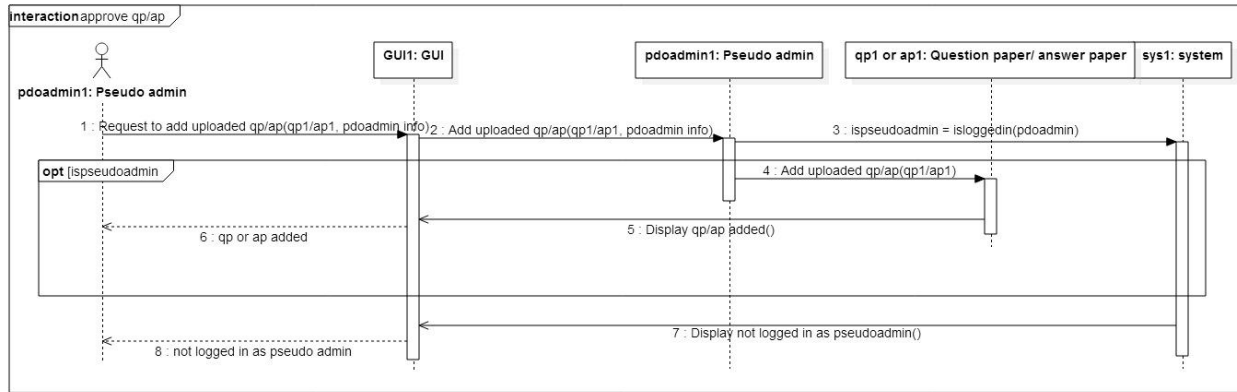


Figure 3-9

3.10 Takedown Question/Answer

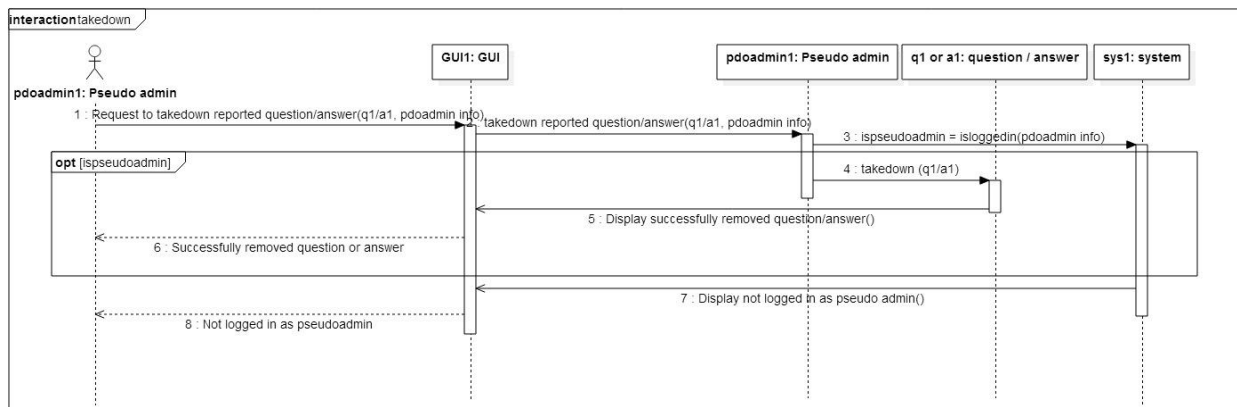


Figure 3-10

3.11 Assign Next PseudoAdmin

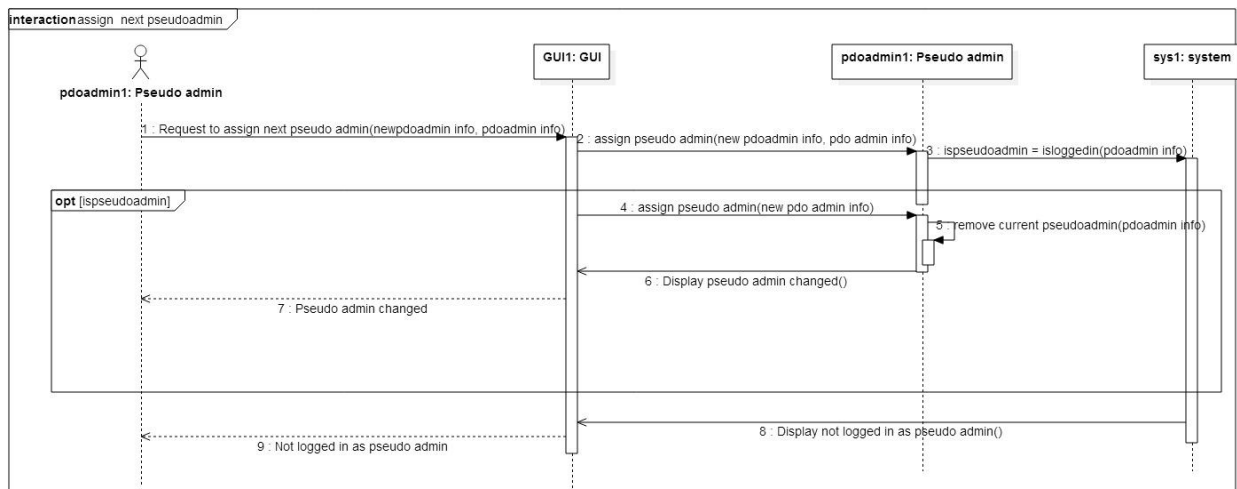


Figure 3-11

3.12 Admin

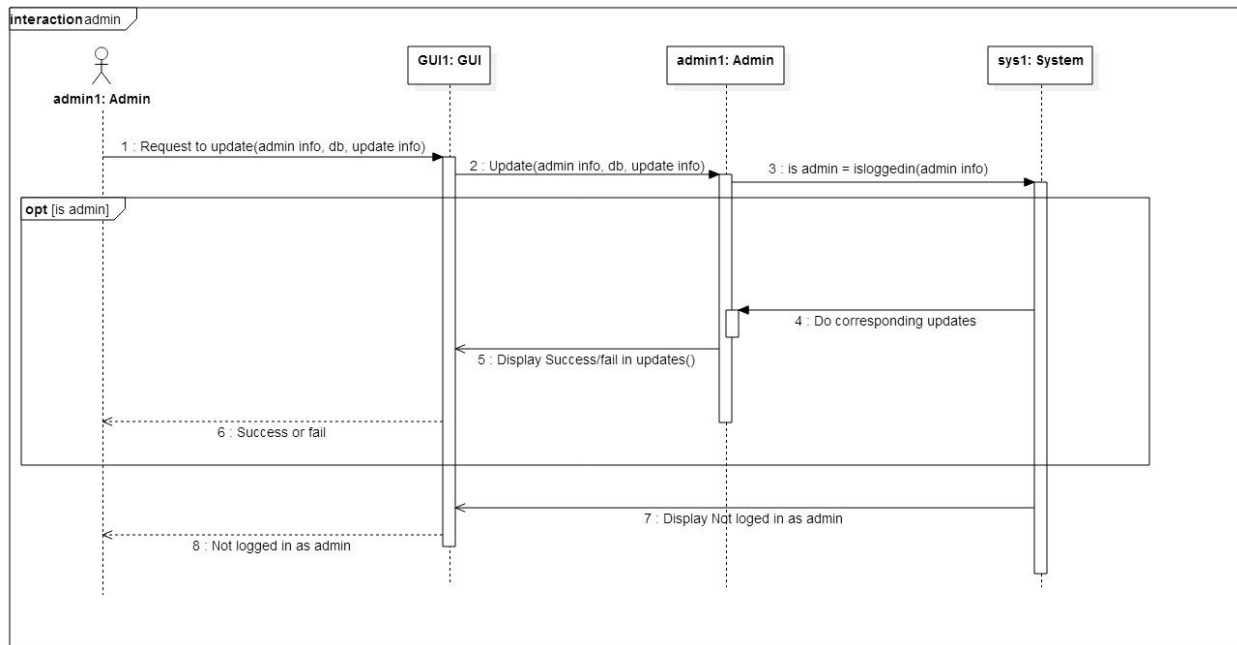


Figure 3-12

4 E-R Diagram

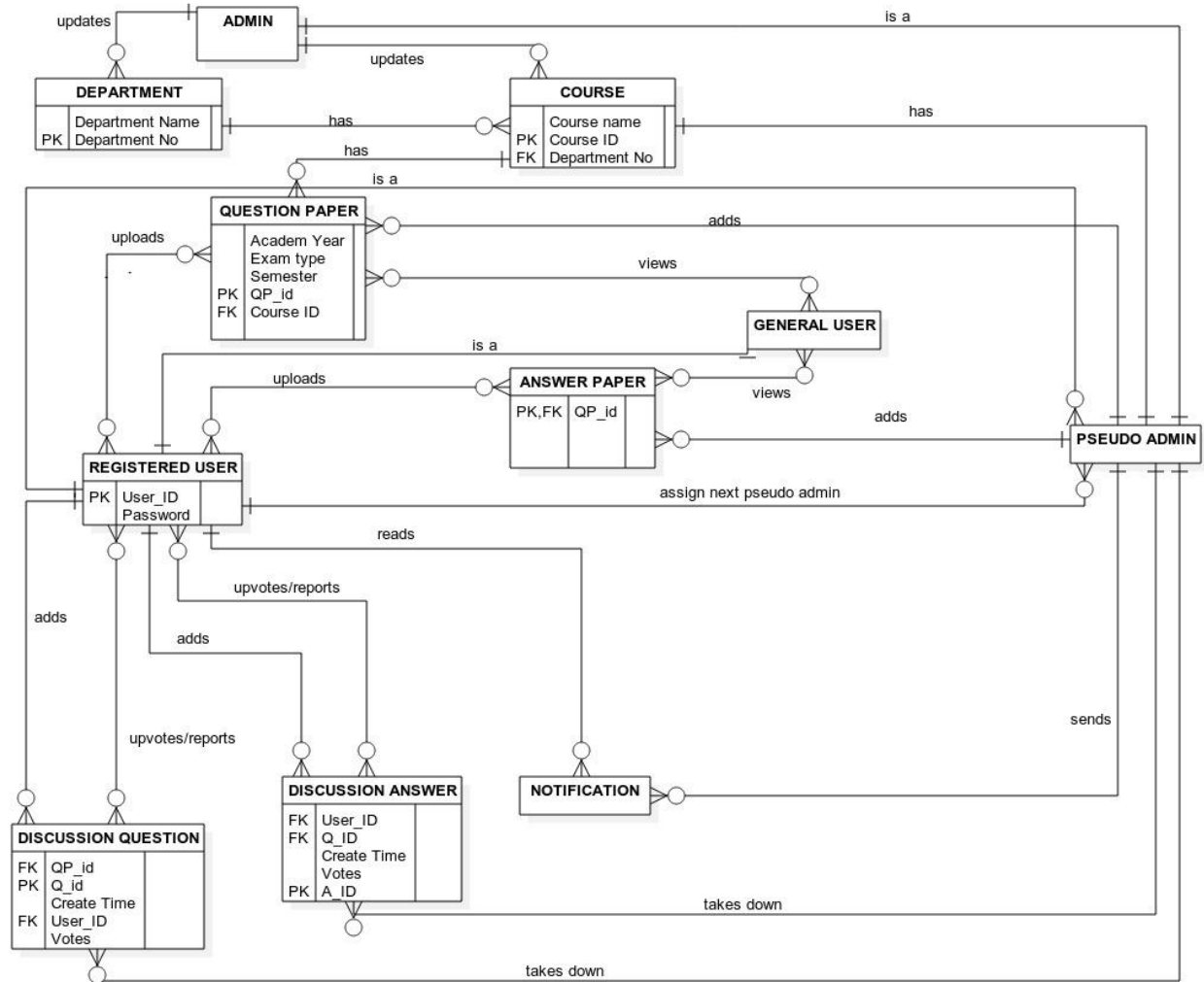


Figure 4-1

5 Activity Diagrams

5.1 View

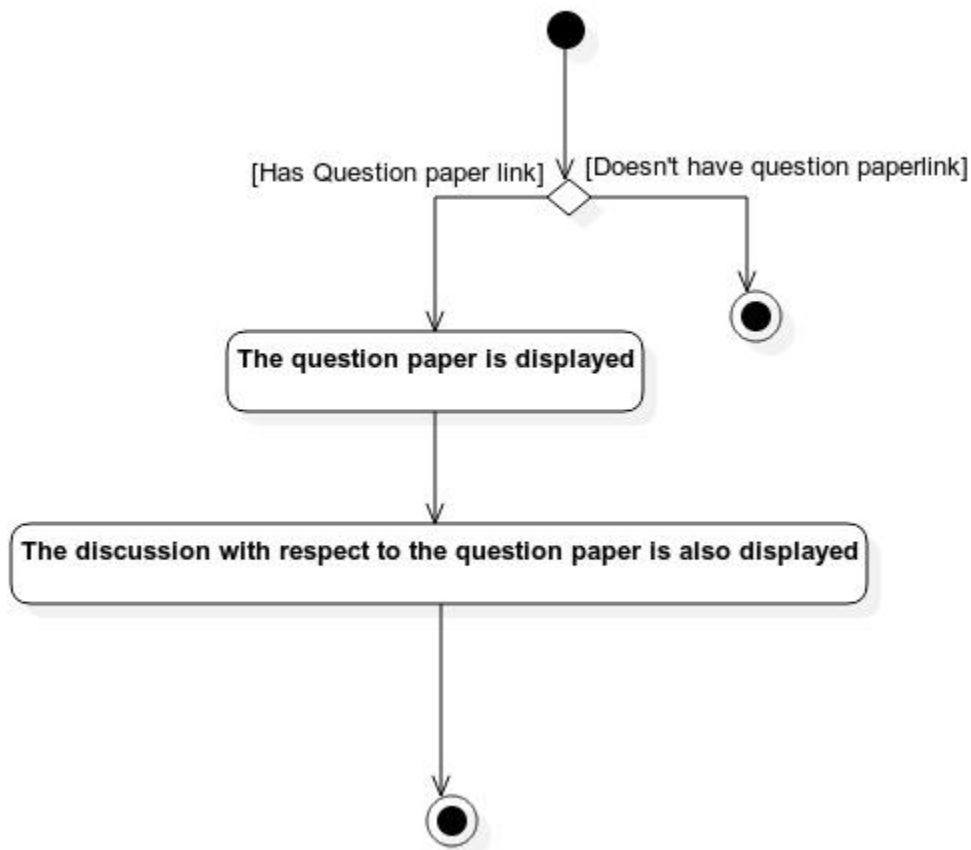


Figure 5-1

5.2 Download

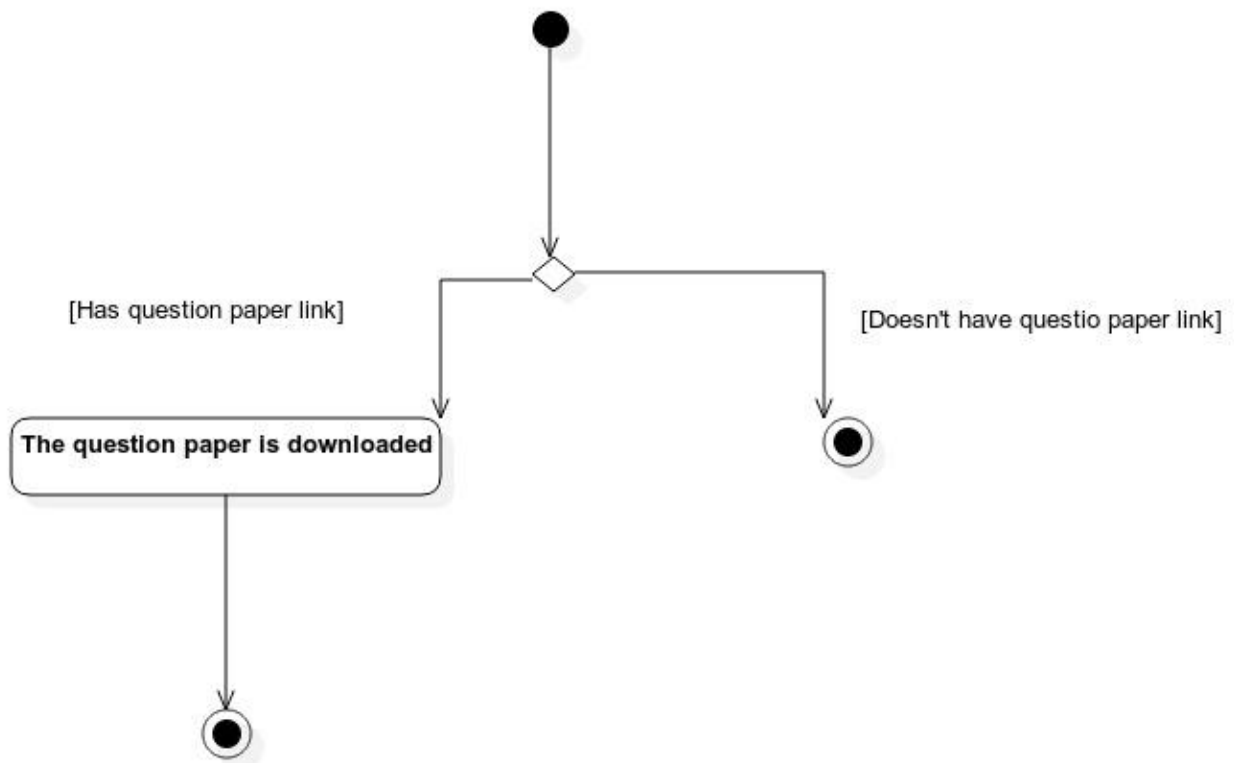


Figure 5-2

5.3 Register

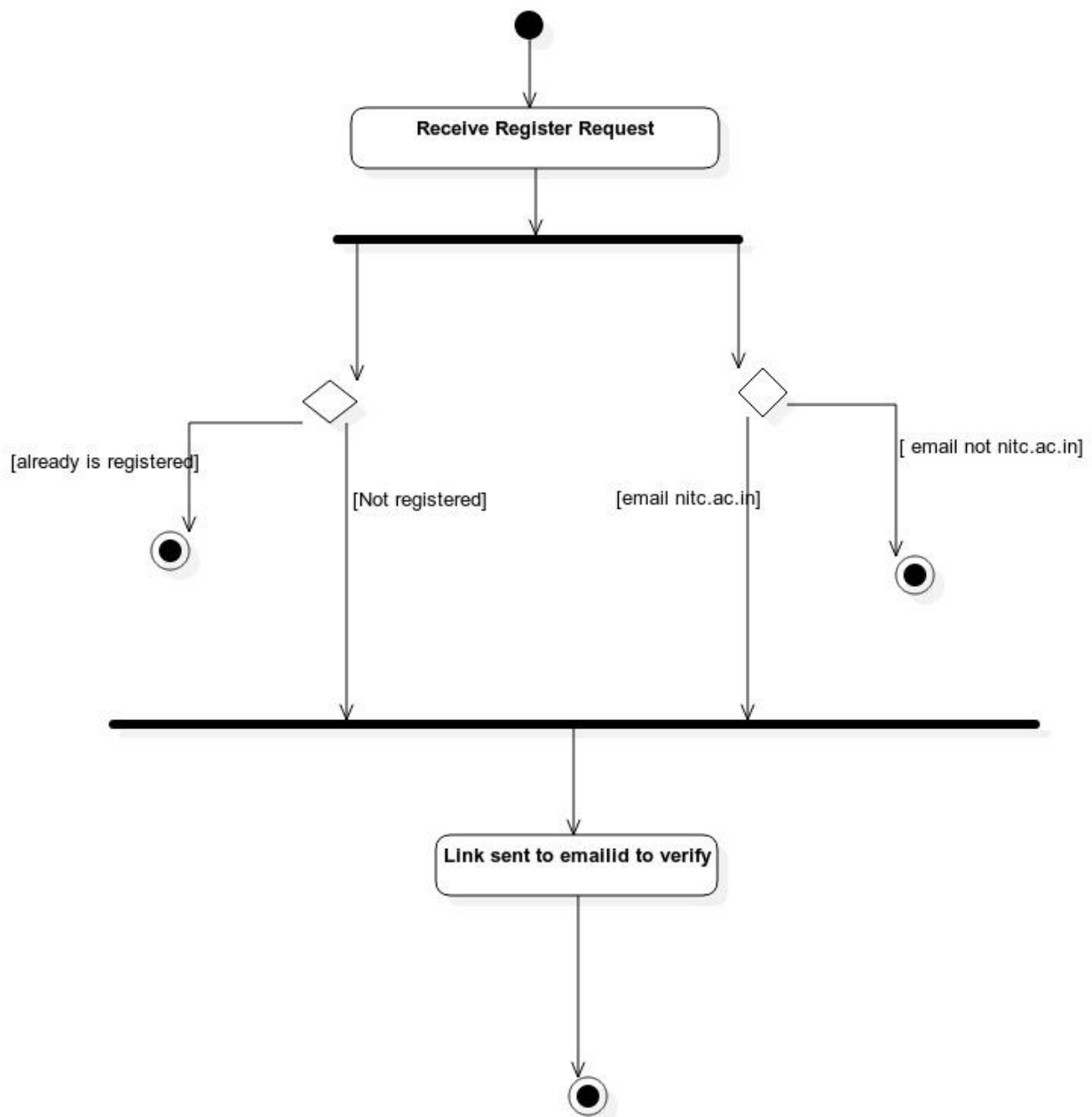


Figure 5-3

5.4 Verify

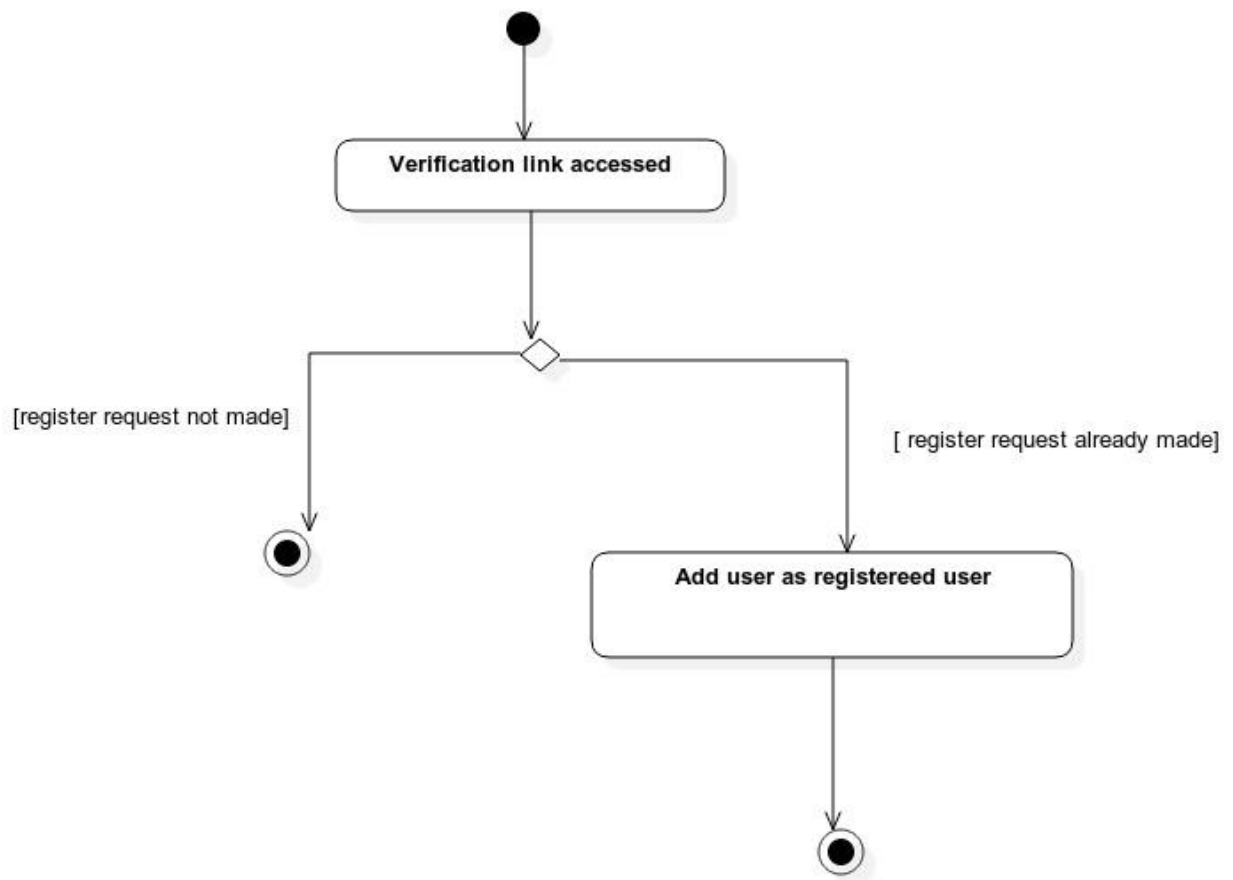


Figure 5-4

5.5 Login

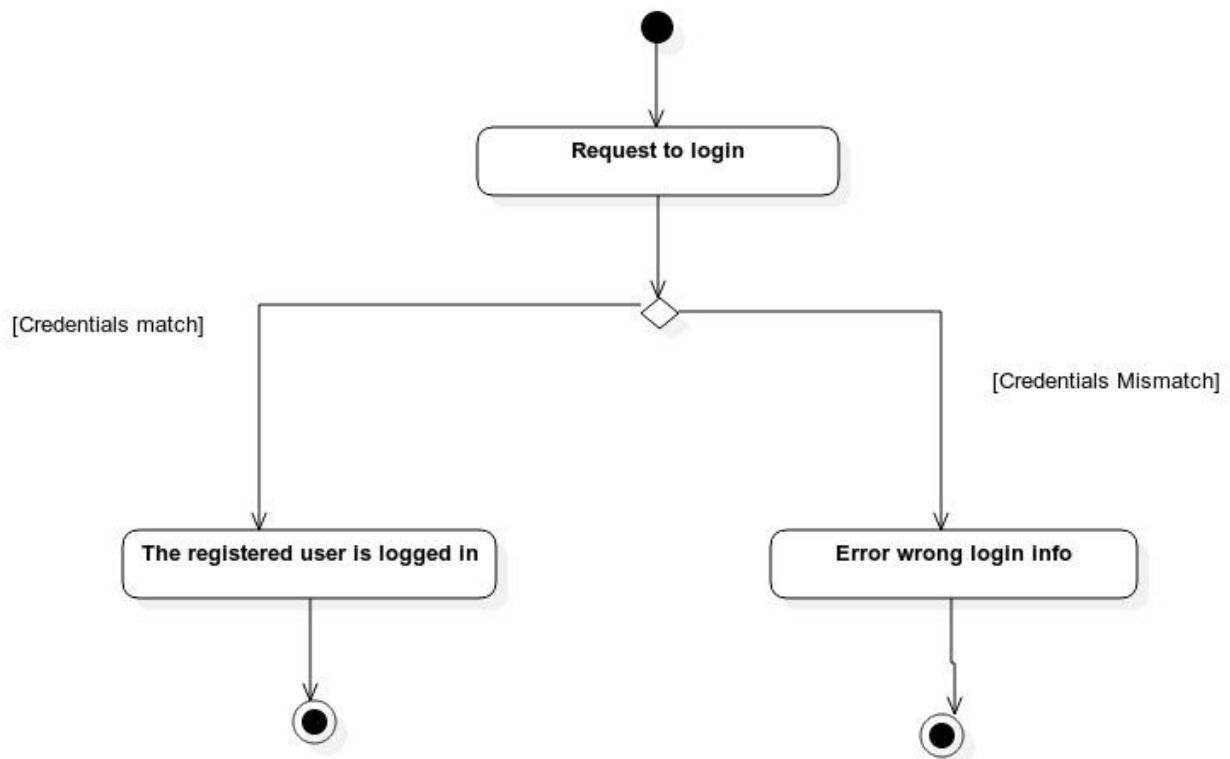


Figure 5-5

5.6 Logout

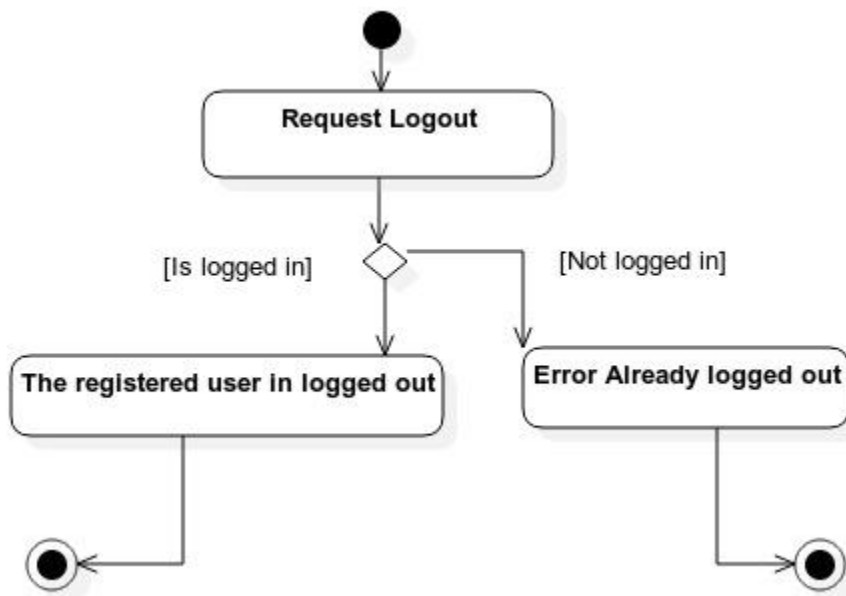


Figure 5-6

5.7 Change Password

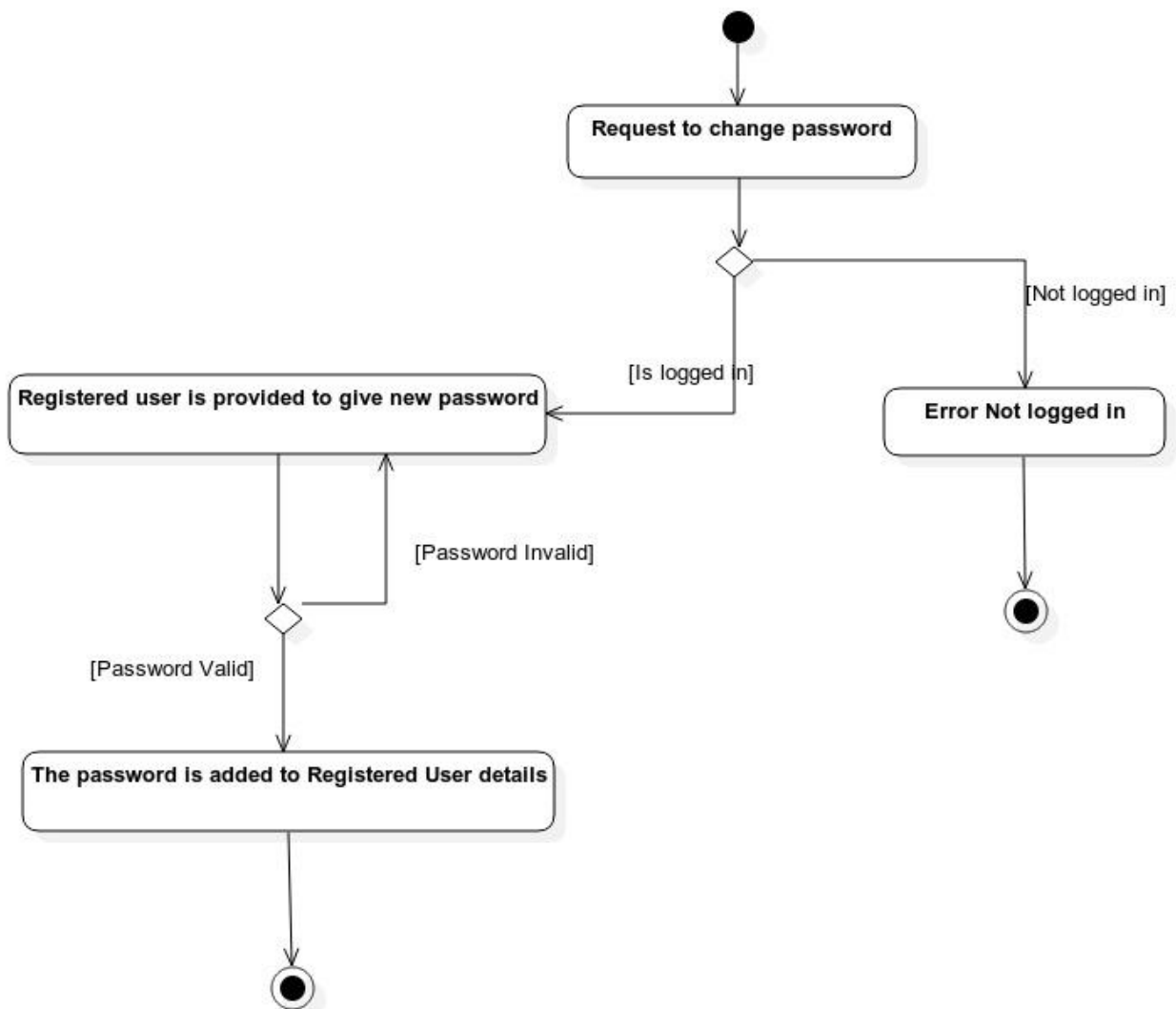


Figure 5-7

5.8 Forgot Password

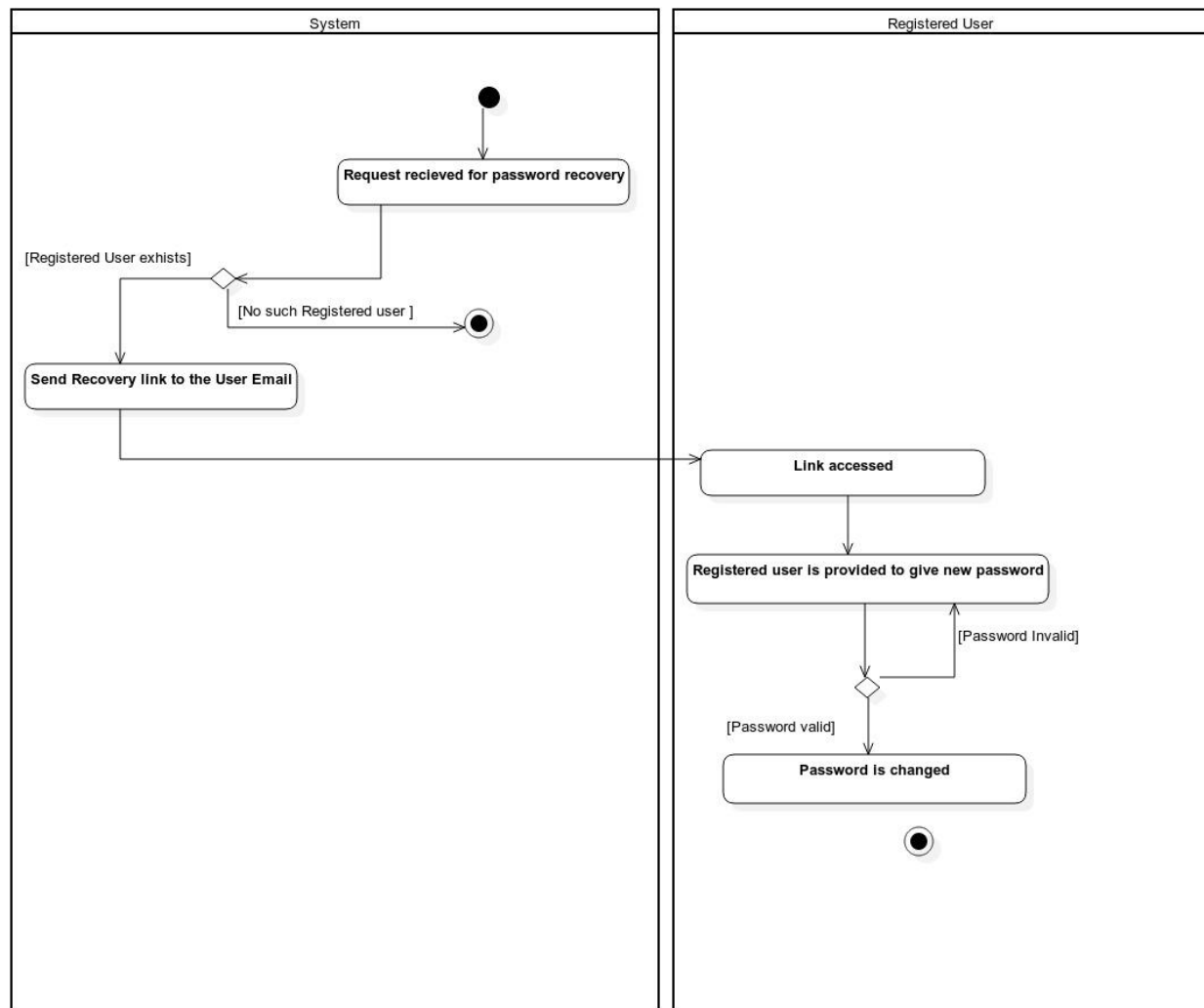


Figure 5-8

5.9 Upload Question Paper/ Answer Paper

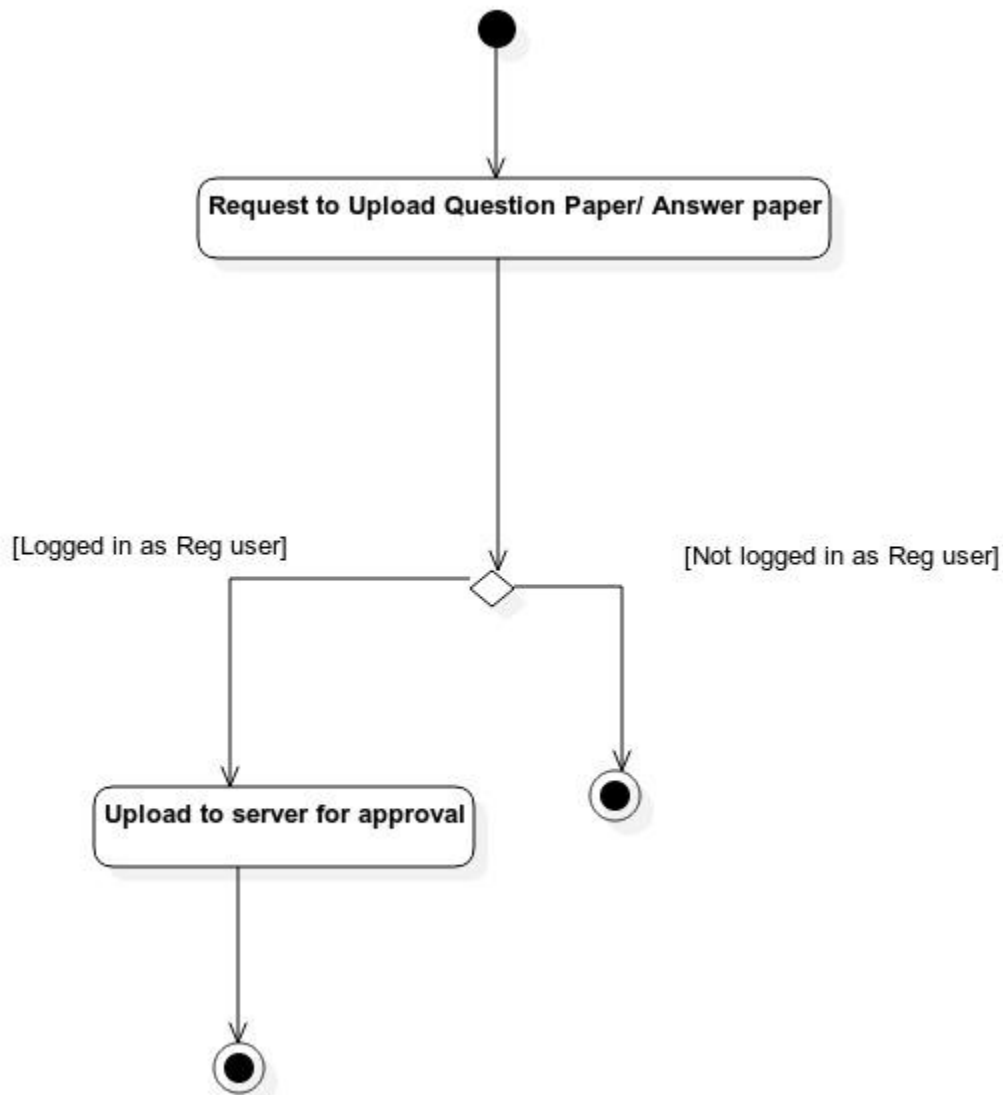


Figure 5-9

5.10 Ask Question/ Reply to a Question

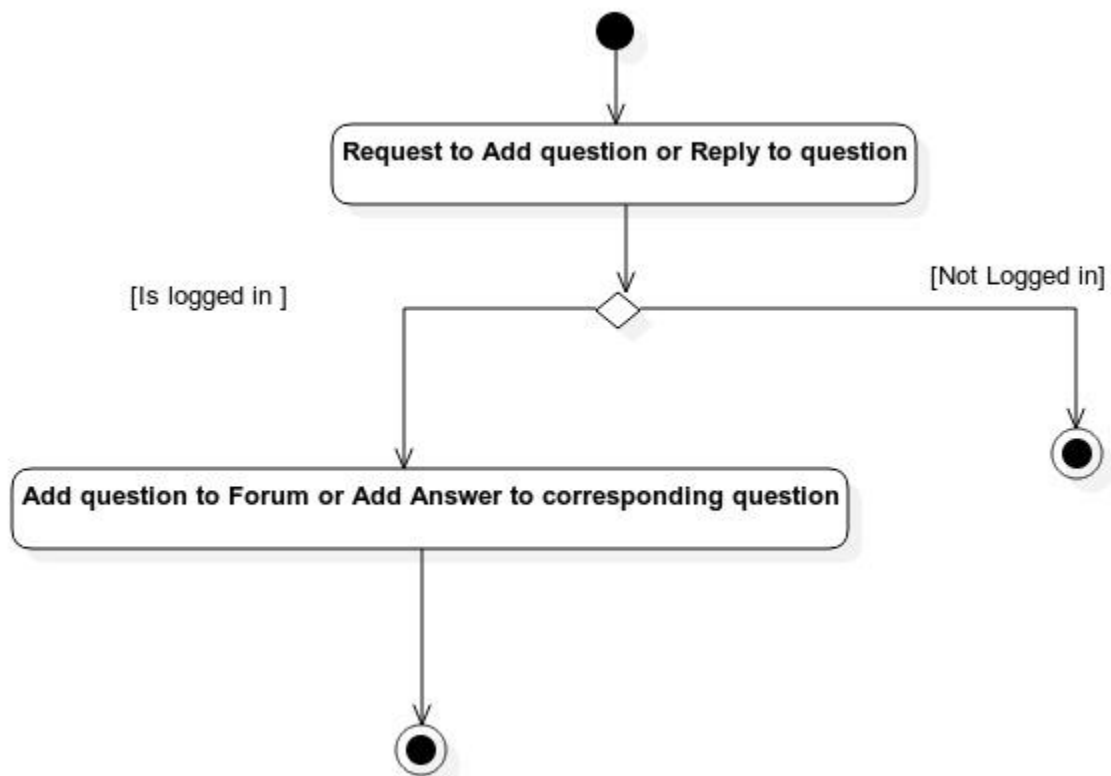


Figure 5-10

5.11 Upvote/ Report Question/Answer

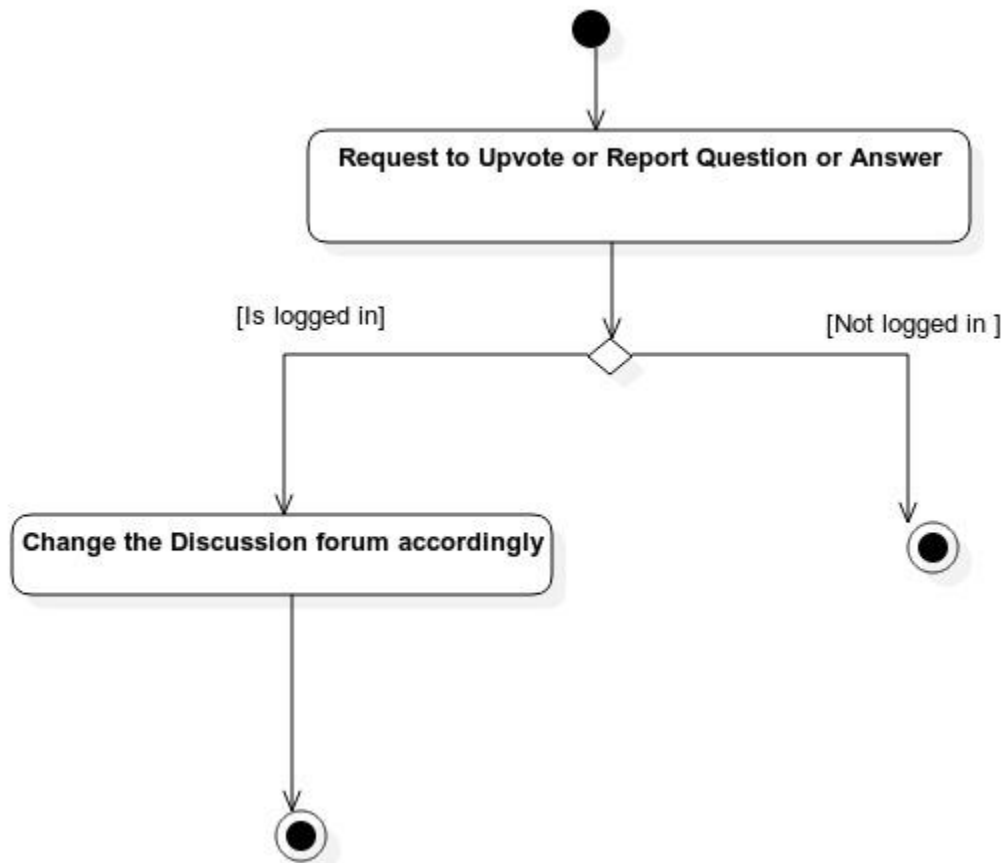


Figure 5-11

5.12 Read Notifications

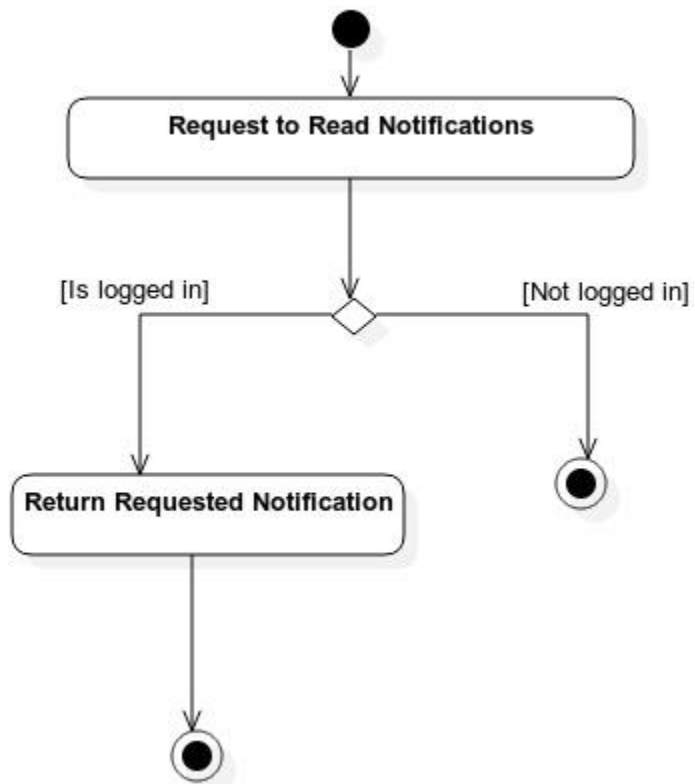


Figure 5-12

5.13 Approve Uploaded Question Paper/Answer Paper

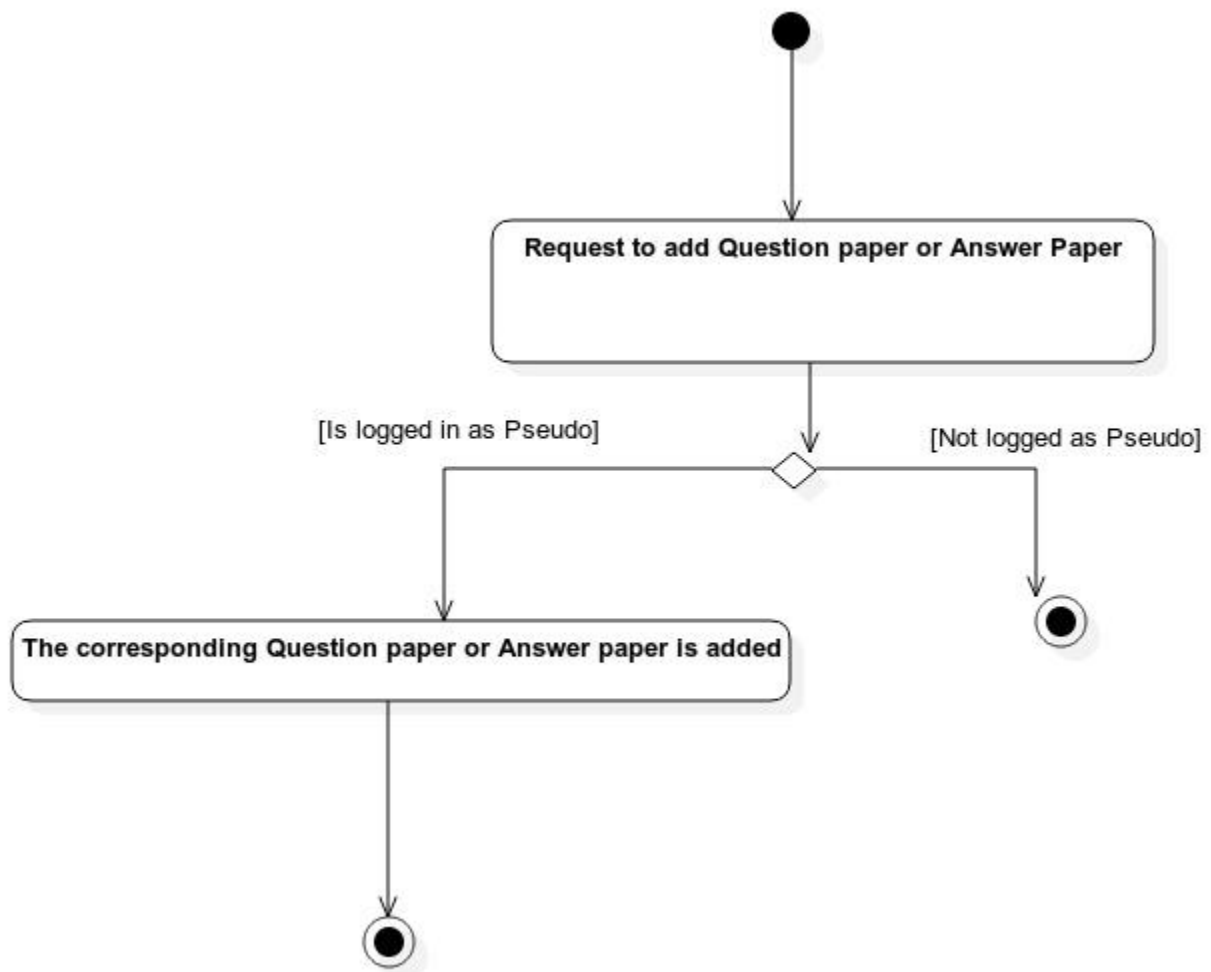


Figure 5-13

5.14 Assign Next PseudoAdmin

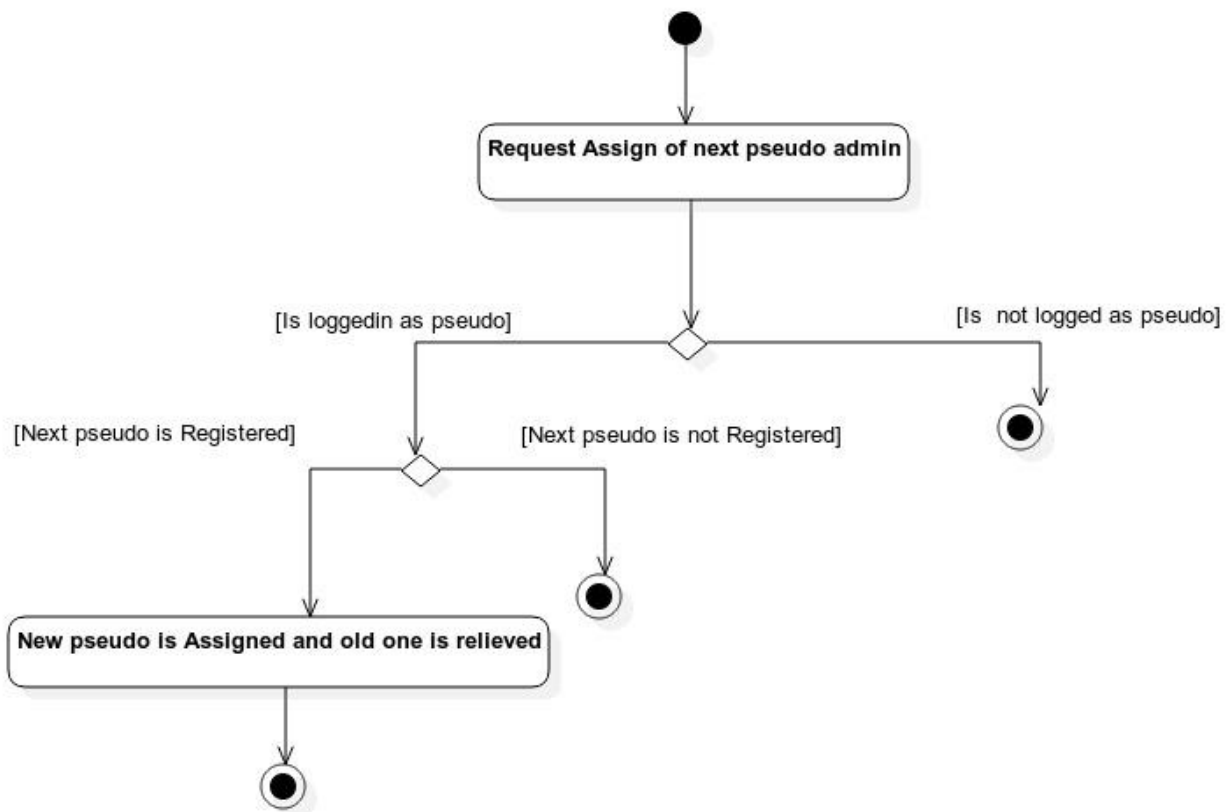


Figure 5-14

5.15 Take Down Question/Answer

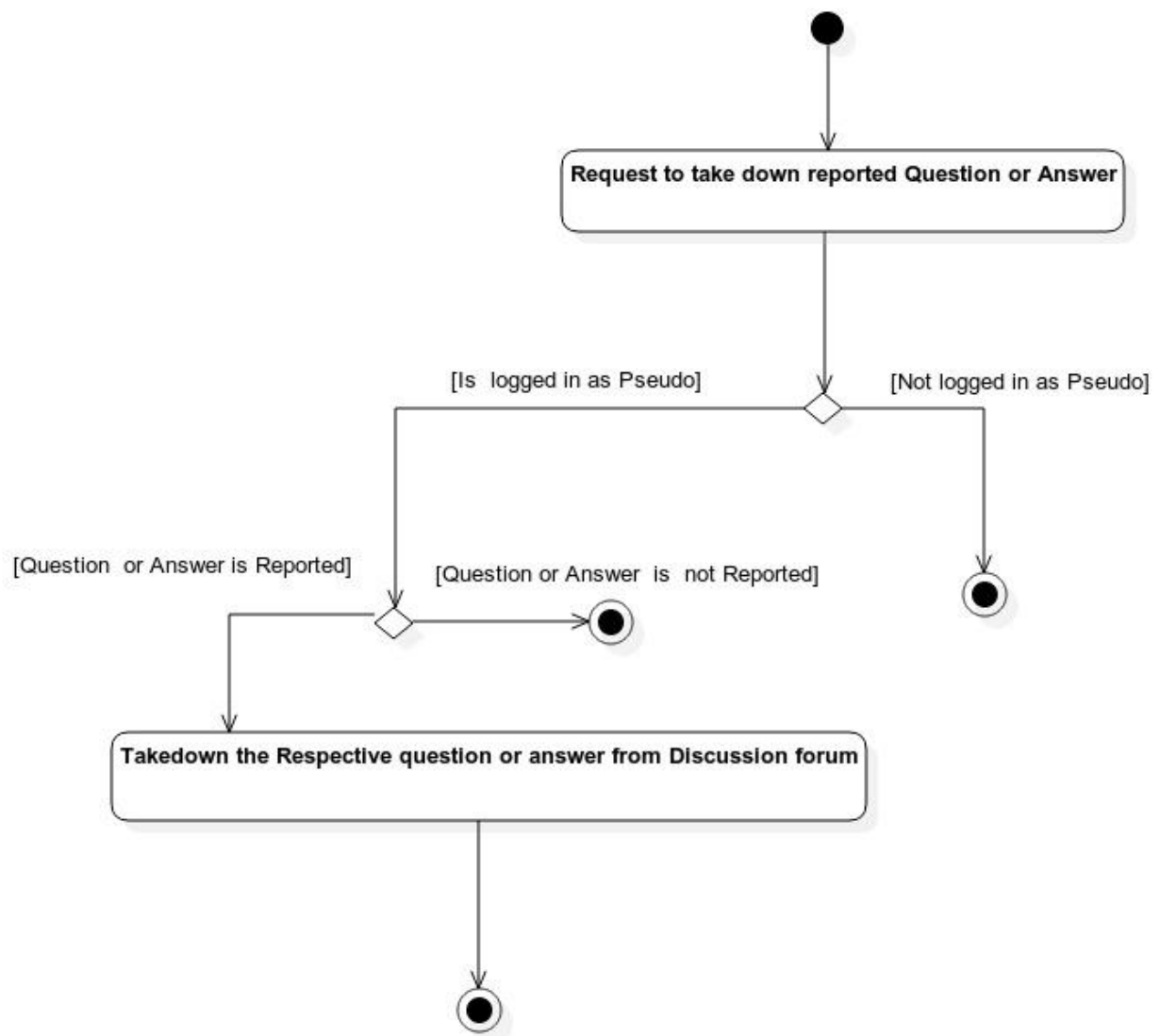


Figure 5-15

6 Use Cases

6.1 View/Download/ Advanced Search/ Browse/ Register

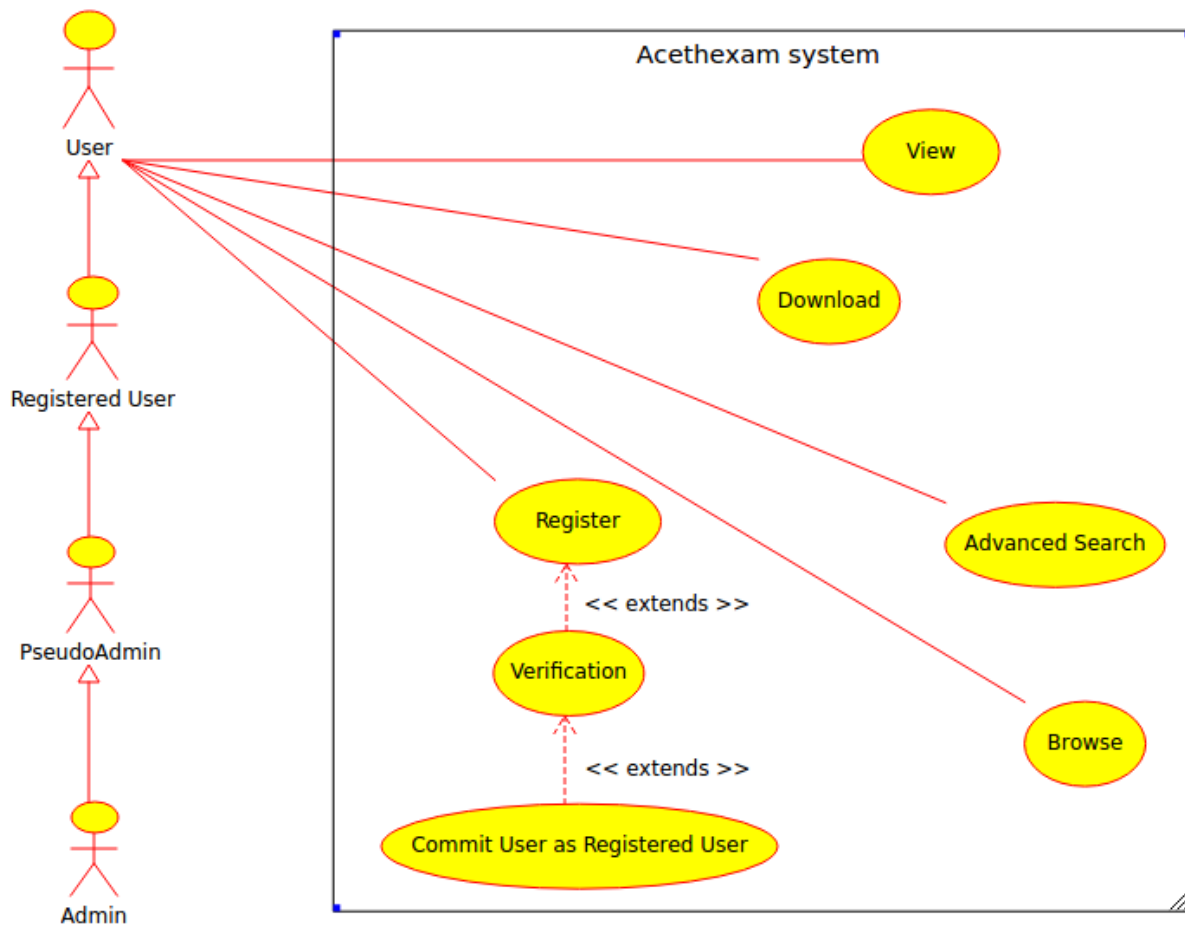


Figure 6-1

6.2 Ask Question/ Reply to a Question/ Upload

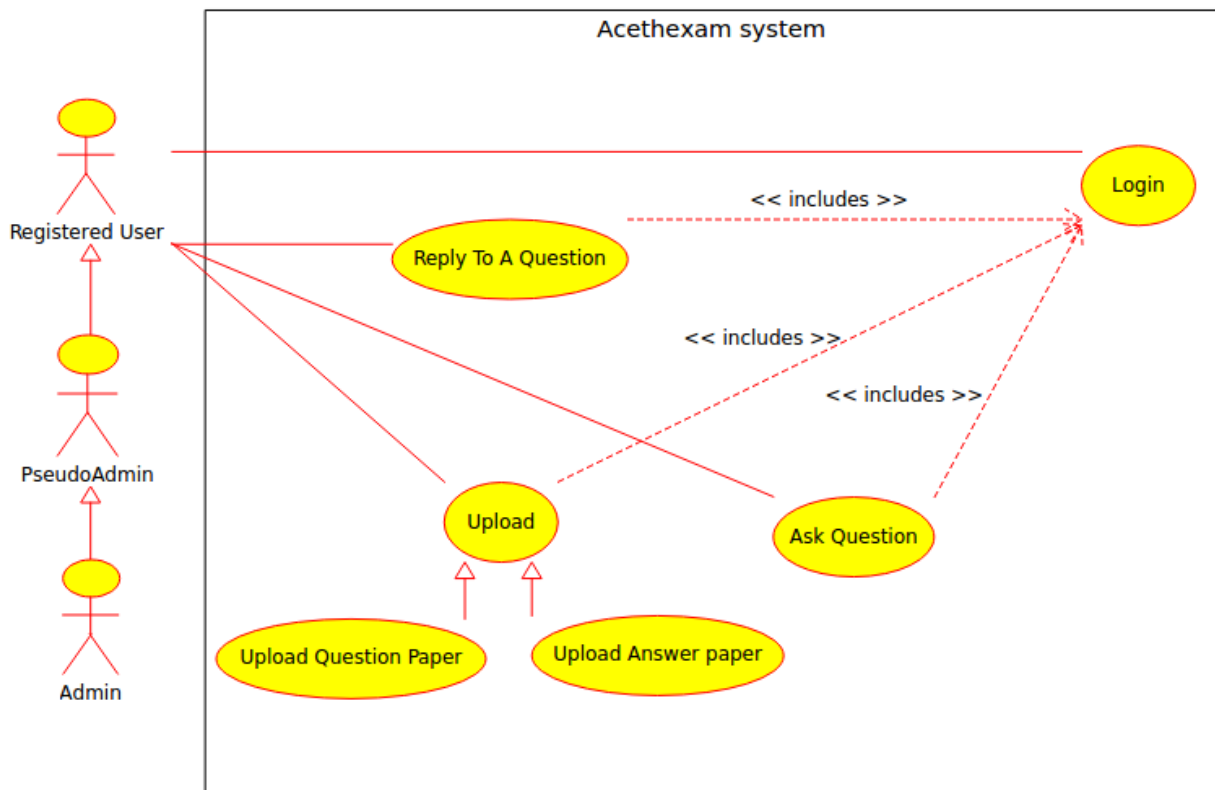


Figure 6-2

6.3 Read Notifications/ Upvote or Report question or Answer

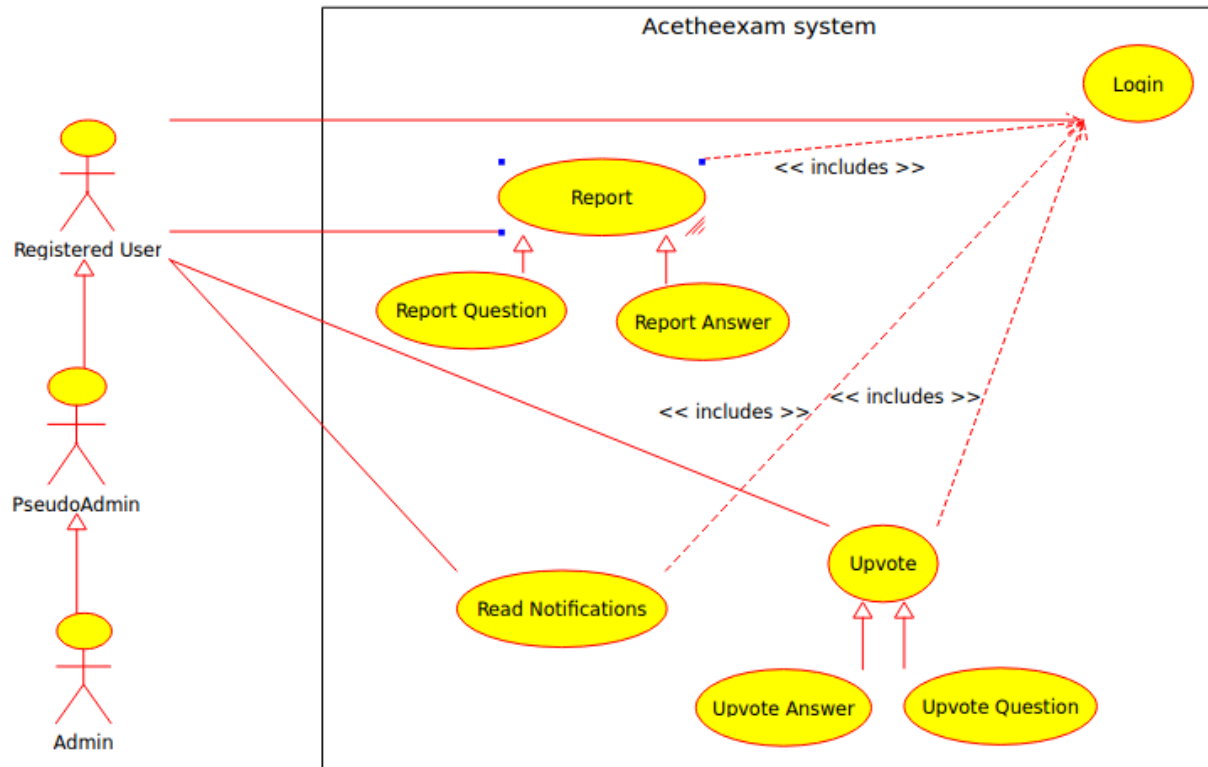


Figure 6-3

6.4 Logout/ Login/ Change Password/ Forgot Password

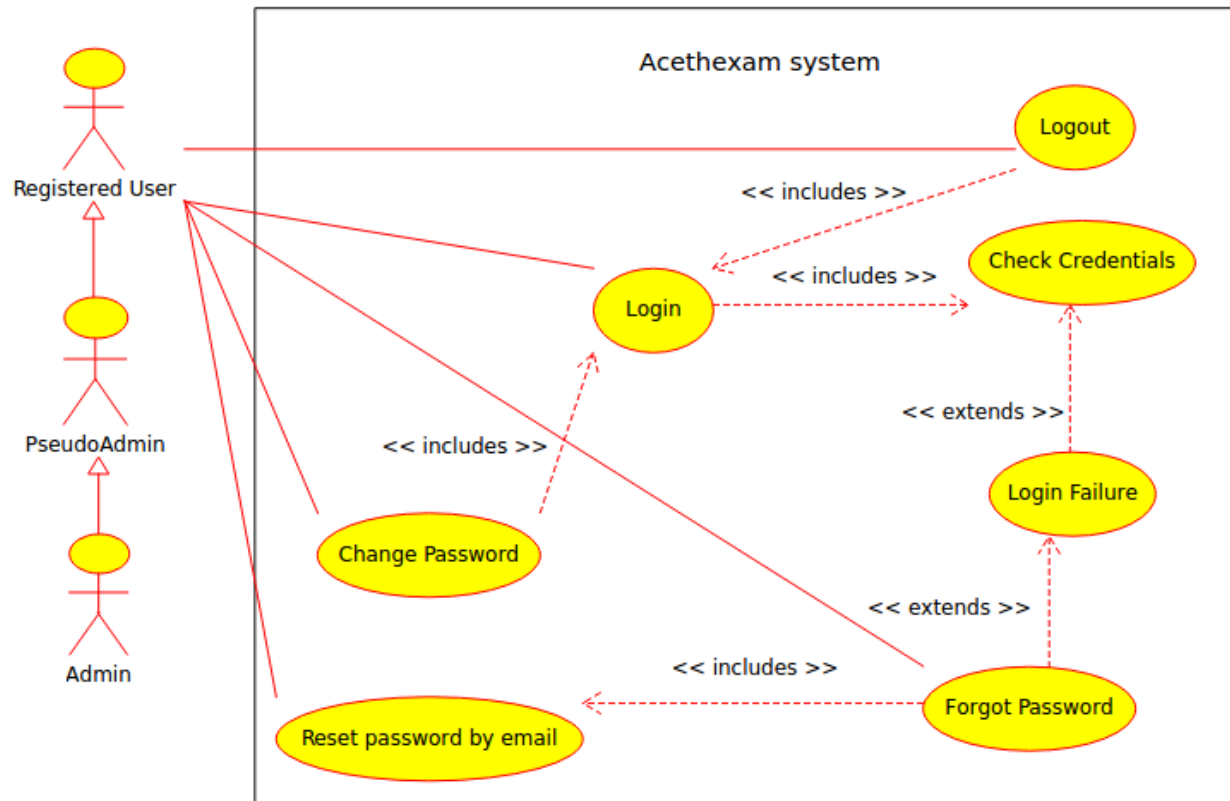


Figure 6-4

6.5 Assign Next PseudoAdmin/ Takedown Question or Answer

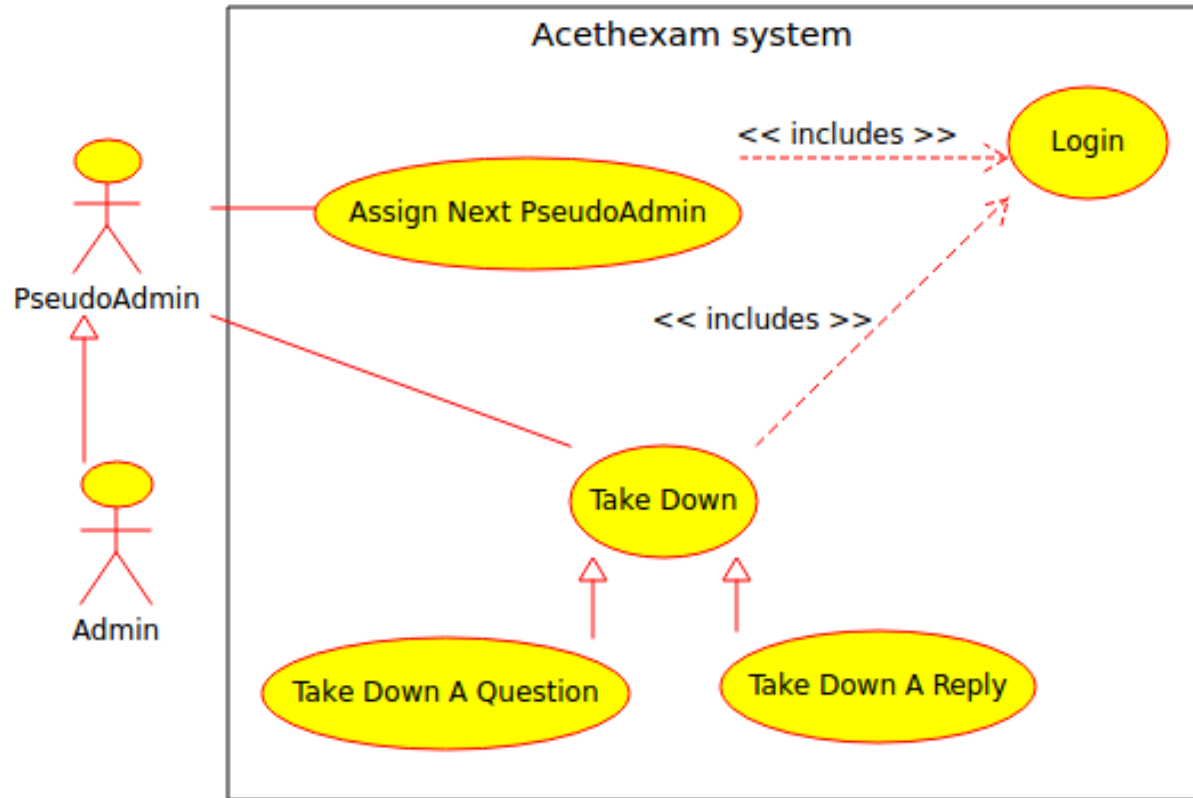


Figure 6-5

6.6 Approve Question Paper or Answer Paper uploaded/Send Notification

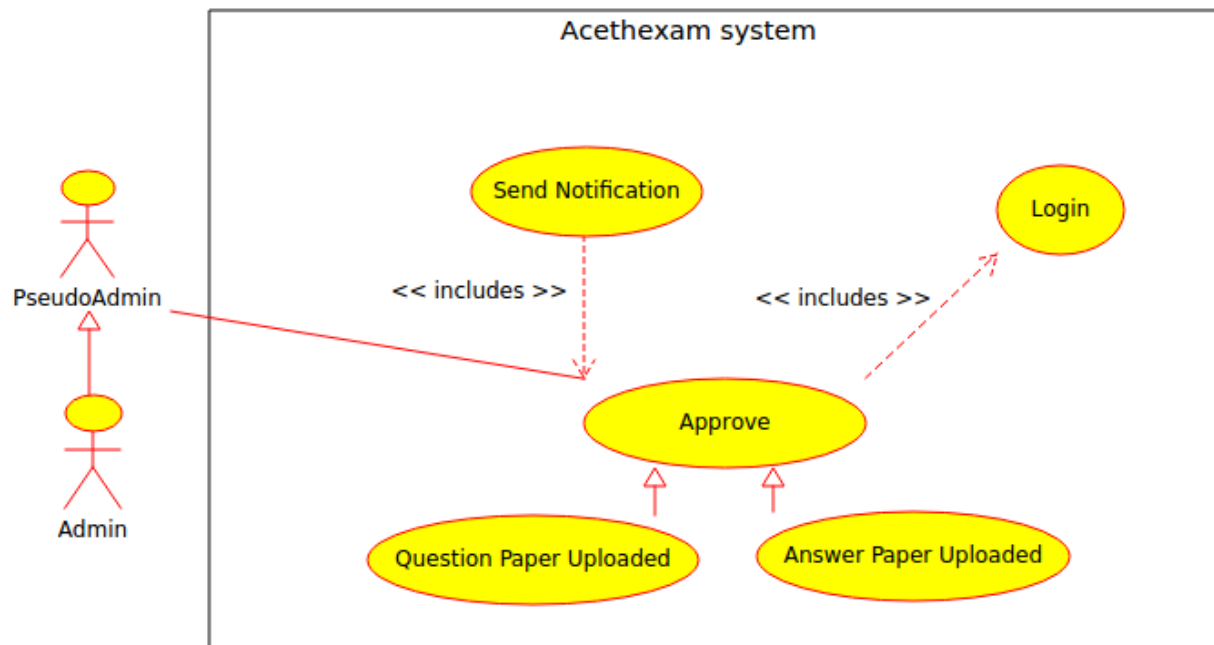


Figure 6-6

6.7 Update Discussion DB/Question Paper DB/Course DB and Assign Pseudo Admin

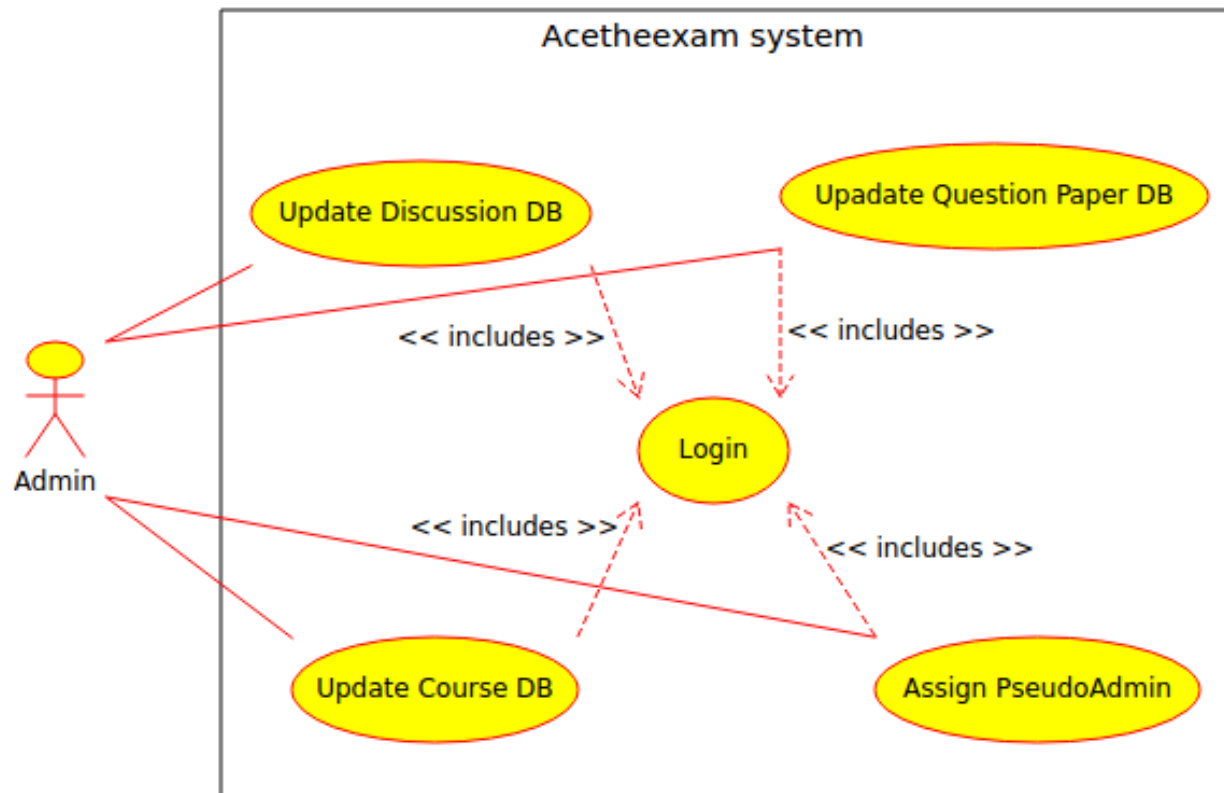


Figure 6-7

7 Code Generated by Class Diagrams

7.1 Admin.class.php

```
1 <?php
2
3 class Admin extends Pseudo Admin {
4
5 }
6
7
```

Figure 7-1

7.2 Answer Paper.class.php

```
1 <?php
2
3 class Answer Paper implements General User Interface, Registered User Interface, Pseudo Admin Interface {
4
5     public function __construct() {
6     }
7
8     public function Upload Answer Paper() {
9     }
10
11
12     public function Approve Answer Paper() {
13     }
14
15
16     public function Remove Answer Paper() {
17     }
18
19
20     public function Download() {
21     }
22
23
24 }
```

Figure 7-2

7.3 Course.class.php

```
1 <?php
2
3 class Course {
4
5     public function __construct() {
6     }
7
8     private $Course Name;
9
10    private $Course ID;
11
12
13    public function Add Course() {
14    }
15
16
17    public function Remove Course() {
18    }
19
20
21 }
```

Figure 7-3

7.4 Department.class.php

```
1 <?php
2
3 class Department {
4
5     public function __construct() {
6     }
7     private $Department Name;
8
9     private $Department No;
10
11     public function Add Department() {
12     }
13
14     public function Remove Department() {
15     }
16 }
17
18 }
```

Figure 7-4

7.5 Discussion Answer.class.php

```
1 <?php
2
3 class Discussion Answer implements Registered User Interface, Pseudo Admin Interface {
4
5     public function __construct() {
6     }
7     private $Time;
8     private $AnswerGiver;
9
10    public function Add Answer() {
11    }
12
13    public function Report Answer() {
14    }
15
16    public function Upvote Answer() {
17    }
18
19    public function Takedown Answer() {
20    }
21 }
22
23 }
```

Figure 7-5

7.6 Discussion Question.class.php

```
1 <?php
2
3 class Discussion Question implements Registered User Interface, Pseudo Admin Interface {
4
5     public function __construct() {
6     }
7     private $Time;
8     private $QuestionAsker;
9     private $Votes;
10
11     public function Add Question() {
12     }
13
14     public function Report Question() {
15     }
16
17     public function Upvote Question() {
18     }
19
20     public function Takedown Question() {
21     }
22 }
23
24 }
```

Figure 7-6

7.7 General User Interface.interface.php

```
1 <?php
2
3
4 public interface General User Interface {
5
6     public function View();
7
8     public function Download();
9
10    public function Advance Search();
11
12 }
```

Figure 7-7

7.8 General User.class.php

```
1 <?php
2
3 class General User {
4
5     public function __construct() {
6     }
7
8     public function Register() {
9     }
10
11
12 }
```

Figure 7-8

7.9 Pseudo Admin Interface.interface.php

```
1 <?php
2
3 public interface Pseudo Admin Interface {
4
5     public function Approve Question Paper();
6
7     public function Approve Answer Paper();
8
9     public function Takedown Question();
10
11     public function Takedown Answer();
12
13 }
```

Figure 7-9

7.10 Pseudo Admin.class.php

```
1 <?php
2
3 class Pseudo Admin extends Registered User {
4
5     public function Send Notifications() {
6
7     }
8
9     public function Assign Next Pseudo Admin() {
10
11     }
12
13 }
```

Figure 7-10

7.11 Question Paper.class.php

```
1 <?php
2
3 class Question Paper implements General User Interface, General User Interface, Registered User Interface, Pseudo Admin Interface{
4
5     public function __construct() {
6
7     }
8
9     private $Academic Year;
10    private $Exam Type;
11    private $Semester;
12
13    public function View() {
14
15    }
16    public function Upload Question Paper() {
17
18    }
19    public function Approve Question Paper() {
20
21    }
22    public function Remove Question Paper() {
23
24    }
25    public function Download() {
26
27    }
28    public function Advance Search() {
29
30    }
31 }
```

Figure 7-11

7.12 Registered User Interface.interface.php

```
1 <?php
2
3 public interface Registered User Interface {
4
5     public function Upload Question Paper();
6     public function Upload Answer Paper();
7     public function Add Question();
8     public function Report Question();
9     public function Upvote Question();
10    public function Add Answer();
11    public function Report Answer();
12    public function Upvote Answer();
13
14 }
```

Figure 7-12

7.13 Registered User.class.php

```
1 <?php
2
3 class Registered User extends General User {
4
5     public function Login() {
6
7     }
8
9     public function Logout() {
10
11    }
12    public function Forgot Password() {
13
14    }
15    public function Change Password() {
16
17    }
18    public function Read Notifications() {
19
20    }
21
22 }
```

Figure 7-13