



**United International University**  
*QUEST FOR EXCELLENCE*

Department of Computer Science and Engineering (CSE)

**FALL 2022 Trimester**  
**CSE 3522: System Analysis Lab**  
**Section: E**

**Report 02**  
**Project Name: TA Recruitment (TA)**  
**Group Name: big\_O**

**Name:**

|                      |           |
|----------------------|-----------|
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**Submitted To**

Sadia Islam Ma'am

**Submission Date: 12/02 /2023**

## **INTRODUCTION**

TA Recruitment (TR) is a mission-mode project with the objective of making the TA recruitment process to be done in a computerized system in efficient way. The services can be availed through the internet. Our concept is to break down the hassles and waste of time every TA applicant is facing during application.

## **PROBLEM**

Teaching Assistant (TA) is needed to help teacher to create an environment that is efficient to learning. TA also needed to help the corresponding students for better learning. It reduces the workload from teacher and both can handle and deliver more information in compared with before. TA Recruitment (TR) project has developed to ensure the TA recruitment process run in systemic approach and also support the paperless process trend. Conducting internal researches, student needs to fill a form with information that needed to examine as teaching assistant. While the examine process running it needed time to get the result. Our concern is to make it as fully functional in systemic paperless way.

## **SOLUTION**

TA Recruitment (TA) is a slight-solution to the difficulties organized, systemic, consistency with concise time. It is adopted multiple engagement methodologies in favor of not only students but also varsity authority conducting less costly with certainly taking a paperless solution. Some of the students feel disturbed while applying for TA for the process and some of them don't want to show others while applying. This process will be helpful for both of the parties.

## **FEATURE LIST**

- 1. Homepage:** Students can keep in touch with website not only to get the relative information for the recruitment like research, portfolio, club, contact etc. but also may login.
- 2. Individual Login Panel:** To avail the recruitment process there are different parts for admin, faculty and student. Admin not only can add

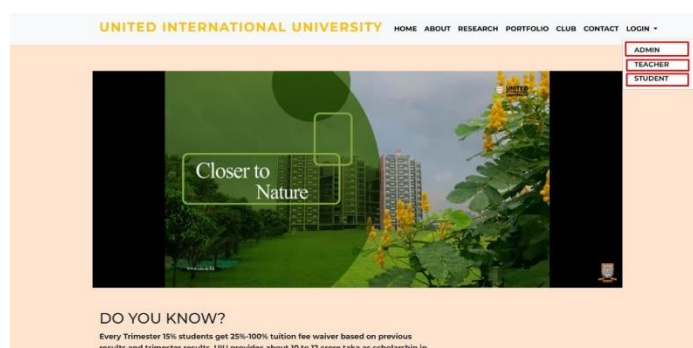
faculty and student but also can assign a faculty to handle the recruitment process, faculty can accept the student's application, student can apply, update information from their ends. Faculty can view the applications based on courses.

3. **Verification:** While applying for the teaching assistant faculty can check the student's information whether the information like cumulative grade point average (cgpa) is correct or not and make it as verified.
4. **Application:** With more than 3.69 cgpa student may apply for TA. Students can delete their application also. After the application, faculty can overview the application and needed to be accepted as considered as final applicant.
5. **Confirmation Mail:** After assigning a faculty as a TA recruitment in charge, adding a student and assigning a student as TA the confirmation mail will be sent by system in respect to authority.

## GLIMPSE

### Homepage:

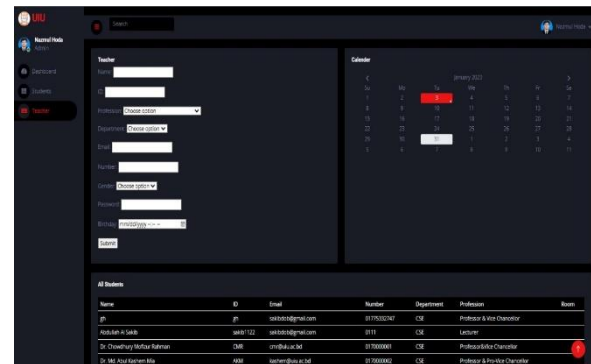
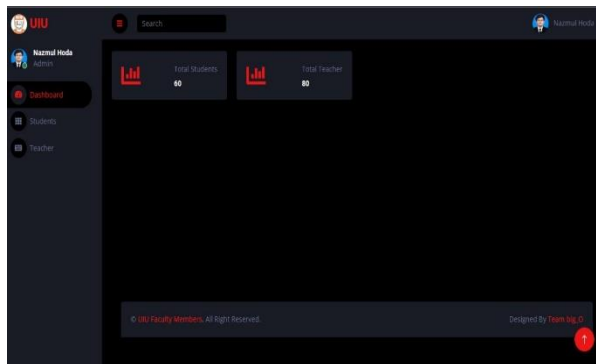
Students can keep in touch with website to get the relative information for the recruitment like research, portfolio, club, contact to keep updated. Admin, faculty, and students can get the access bar to login.



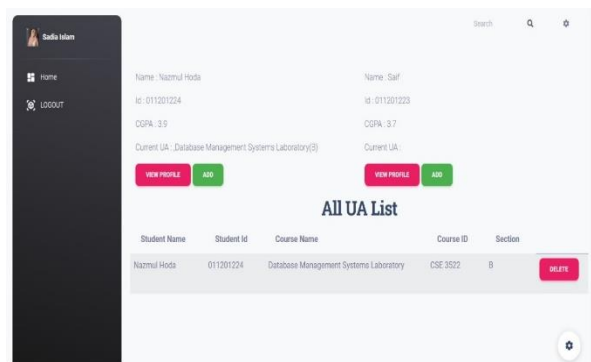
**Login:** Admin, faculty and students can access through the portal. The design is same for all of them.




**Admin Home:** Admin can add students and assign any faculty to handle the process providing corresponding information. After that, faculty and student would get confirmation mail with user id and password. Admin can delete application also.



**Faculty Home:** Assigned faculty may access the courses and overview the application. The course teacher can accept the application and assign a student as TA.



## Student Home:

**Nazmul Hoda**

[Home](#)

[LOGOUT](#)

Search

Q

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Select Your Subject That you want to apply

Choose option

Choose option

Course:Structured Programming Language Course id: '16' Teacher Name: Mr. Farhan Anan Himu Section: A Class Start: 08:30 Class End:10:00

Course:Structured Programming Language Course id: '17' Teacher Name: Anika Tasnim Rodela Section: B Class Start: 10:00 Class End:11:30

Course:Structured Programming Language Course id: '19' Teacher Name: Mr. Md. Benzir Ahamed Section: C Class Start: 15:00 Class End:16:30

Course:Database Management Systems Laboratory Course id: '36' Teacher Name: Md. Mohaiminul Islam Section: C Class Start: 11:00 Class End:13:30

Course:Database Management Systems Laboratory Course id: '46' Teacher Name: Dr. Salekul Islam Section: A Class Start: 08:30 Class End:11:00

Course:Database Management Systems Laboratory Course id: '47' Teacher Name: Sadia Islam Section: B Class Start: 11:00 Class End:13:30

Course:Advanced Object Oriented Programming Laboratory Course id: '64' Teacher Name: Ajwad Akil Section: C Class Start: 08:30 Class End:11:00

Course:Computer Networks Laboratory Course id: '117' Teacher Name: Gourab Saha Section: A Class Start: 8:30 Class End:11:00

Course:Computer Networks Laboratory Course id: '118' Teacher Name: Gourab Saha Section: B Class Start: 11:00 Class End:1:30

Course:Computer Networks Laboratory Course id: '119' Teacher Name: Gourab Saha Section: C Class Start: 2:00 Class End:4:30


Course:Operating Systems Laboratory Course id: '120' Teacher Name: Santi Brata Nath Joy Section: A Class Start: 2:00 Class End:4:30

Course:Operating Systems Laboratory Course id: '121' Teacher Name: Santi Brata Nath Joy Section: B Class Start: 8:30 Class End:11:00

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## Confirmation:

**Sadia Islam**

[Home](#)

[TA](#)

[LOGOUT](#)

Search

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All TA List

| Student Name | Student id | Course Name                            | Course ID | Section | Status | Action  |
|--------------|------------|--|-----------|---------|--------|---|
| Nazmul Hoda  | 011201224  | Database Management Systems Laboratory | CSE 3522  | B       | Accept | <a href="#">ACCEPT</a> <a href="#">REJECT</a> |

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Congratulations on selected for TA External Inbox x

**teambigo201@gmail.com**

to me

Mon, Jan 2

Congratulations Nazmul Hoda.  
You have been appointed as Under Graduate Assistant in Database Management Systems Laboratory Section B.  
You should contact your course teacher.  
Best wishes for You.

ENTITY RELATION DIAGRAM (ERD)

## TASK DISTRIBUTION

### SQL

#### Admin Student Entry

```
$query = "insert into student (name,id,department,email,number,password,dob,gender) values  
('$name','$id','$department','$email','$number','$md5pass','$birthdaytime','$gender');"
```

#### Admin Assigning Faculty for TA Evolution

```
$query = "insert into teacher (name,id,department,email,number,password,dob,gender,profession)  
values ('$name','$id','$department','$email','$number','$md5pass','$birthdaytime','$gender',  
'$profession');"
```

#### Student Application for TA

```
$sql1 = "INSERT INTO `apply` ( `sname`, `sid`, `cgpa`, `cname`, `cid`, `section`,  
`tname`, `ctimestart`, `ctimeend`,tid) VALUES ('$sname','$tid','$cgpa','$course_name',  
'$cid','$section','$tname','$start','$end','$zid')";  
mysqli_query($conn, $sql1);
```

#### Student Delete Application for TA

```
include("db.php");  
$sql="DELETE FROM `apply` WHERE id=$id";  
mysqli_query($conn, $sql); //auto run  
header("location: s_home.php");
```

#### Application Showing in Descending Order

```
$sql = "SELECT * FROM `apply` WHERE cid='$id' AND section='$section' ORDER BY(cgpa) DESC";  
applied  
$result = mysqli_query($conn, $sql);  
while ($row = mysqli_fetch_array($result)) { //table eprint korar jono  
    $sname = $row['sname'];  
    $sid = $row['sid'];  
    $cgpa = $row['cgpa'];  
    $nid = $row['id'];  
    $cname = $row['cname'];  
    $cid = $row['cid'];  
    $section=$row['section'];  
    $zid = $row['tid'];  
    $acc = " ";  
    $sql1 = "SELECT * FROM `ta` WHERE sid='$id'"; //currently keo TA hishebe ache kina id wise  
    check  
    $result1 = mysqli_query($conn, $sql1);  
    while ($row1 = mysqli_fetch_array($result1)) {  
        $acc = $acc . " , " . $row1['cname'] . " ( " . $row1['section'] . " )"; //multiple value show  
    }  
}
```

## Faculty Approved as TA with Confirmation Mail

```
include("db.php");
$sql="UPDATE `ta` set status='Accept',oid='1' WHERE id=$id";
mysqli_query($conn, $sql);
$email = $emails;
$mail=new PHPMailer(true);
$mail->isSMTP();
$mail->Host='smtp.gmail.com';
$mail->SMTPAuth=true;
$mail->Username='teambigo201@gmail.com';
$mail->Password='bwkzgocqpqarkqwd';

$mail->SMTPSecure='ssl';
$mail->Port=465;
$mail->setFrom('teambigo201@gmail.com');
$mail->addAddress($emails);
$mail->Subject="Congratulations on selected for TA";
$mail->Body="Congratulations $name.
You have been appointed as Under Graduate Assistant in $cname Section $section.
You should contact your course teacher.
Best wishes for You.";
$mail->send();
```

## FUTURE PLAN

1. **Message option between faculty and corresponding TA:** TA can communication via messaging with corresponding course teacher if needed and faculty can also communicate with corresponding TA.
2. **Library Book Allocation System:** Students can allocate books before borrowing from library and can get the book physically from library.
3. **Student Profile Extend Features:** Faculty can access students profile. Student can add their several information in the profile.

## CONCLUSION

TA Recruitment (TR) is a mission-mode project with the objective of making the TA recruitment process to be done in a computerized system in efficient way. The services that the project is providing would definitely helpful for the authority and students.