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1. **Project Introduction**

1. **Problem or Opportunity**

The University of the Philippines is known for its quality education offered to those who have earned the privilege to enter the university. But it is to no one’s surprise that the college educational experience it offers to its students is not a piece of cake. Ask any ‘Iskolar ng Bayan’, and they will surely say that it is a tough journey towards the most wanted college diploma. This is why UP students need all the help they can get and who can they acquire the best aid from than the students themselves who have experienced the UP life firsthand. But the problem of *where or who to ask help from* still remains.

With the scope focusing on the target market that is UP Cebu College, students have been suffering from poor communication due to the lack of resources and information. Some subjects can be tough and difficult, and finding a tutor or someone who can help can be just as hard. There are alternative solutions to this dilemma that almost all students can think of resorting to:

* + Hiring a professional tutor: Although this option seems like the best one, it is almost impractical for college students to spend on tutoring sessions. College tuition is costly enough, and the added burden of paying a professional tutor is not the best choice considering this.
  + Posting on Facebook or any social media platform for help: It is less likely that there will be anyone who will comment or respond diligently on this, and it is bizarre to post this on social media.
  + Asking for referrals from friends: This option can take a lot of time and effort, not only from the one asking for referrals, but also from those being asked. It can also be bothersome for them, too. Perhaps, one would want to seek help from the people who are more willing and are knowledgeable about the subject matter.
  + Doing some research on the internet: This is most likely what most students opt to do, but one must consider the inaccuracies of the sources of information especially if acquired from the web. Not all the questions can be accurately answered.

The problem is that they do not have any platform to connect or link themselves to the perfect person that could help them out or *tutor* them. On the other side, we all know that the majority of the UP students are financially incapable for supplemental matter and support from before which lead us to join in tandem together with the CSU personnel. So to address these problems step by step, we decided to come up with ideas to help UP Cebu Iskolars.

1. **Solution**

TutoreCo is a website and mobile application that is available for all UP Cebu students online. It is a platform where students can arrange and schedule tutorials with one another. Students can also add posts in the website; either as a tutor or a tutee. They can write posts about a program, subject, or topic they need help with and/or can also write posts about subjects one can help other student(s) with. It is basically a learning platform where students of UP Cebu can share what they know and can also learn and acquire help from other students. TutoreCo website and mobile application is made for the specific purpose of being a platform where tutees can find tutors and tutors can find people they could teach. All posts for help will be located in one place, and all posts for tutorial advertisements will also be located in another place in the application. It is an online place where UP Cebu students can find where and who they can ask help from and a place where they can help out others as well.

Overview:

* + There will be a feed where the students’ posts can be seen.
  + The feed can be sorted according to Subject or Student Course or ALL posts.
  + There will be Tutor List where tutors can be seen.
  + People can rate and give points to tutors. (Maybe in the future, teachers can give extra credit to these students based on their points)
  + Students can choose whether they could tutor or not. If they are available to tutor, they could choose the subject they can tutor.
  + Each student will have a schedule or calendar to manage their tutoring sessions.
  + Only UP students can register, hence a UP email address is required, and an email is sent to the said student for confirmation.
  + Each profile contains the name of the student,his/her course, profile picture, contact details, tutoring points and class schedule.

**II. Software Requirements**

|  |  |  |
| --- | --- | --- |
| EPICS | |  |
| Product Backlog Item | |  |
| User  Stories (for each sprint) | Sprint No. 1 |  |
| Sprint No. 2 |  |
| Sprint No. 3 |  |
| Sprint No. 4 |  |

**III. Software Requirements**

1. **Class Diagrams**



1. **Traceability Matrix**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | **STUDENT** | **SUBJECT** | **POST** | **TUTORIAL** | **MESSAGING** |
| **Finding Tutor/ Tutees** | As a student, I can view posts made by Tutors in a panel so I can easily read posts made by tutors. | ✓ |  | ✓ |  |  |
| As a student, I can view posts made by Tutees in a panel so I can easily read posts made by tutees. | ✓ |  | ✓ |  |  |
| As a student, I can view list of tutors in the Tutor Directory so I can view it in one place efficiently. | ✓ |  |  |  |  |
| **Write Posts** | As a tutor, I can post an ad in the feed so possible tutees may know and set a schedule with me. | ✓ | ✓ | ✓ |  |  |
| As a tutee, I can post an ad in the feed so possible tutors may know and set a schedule with me. | ✓ | ✓ | ✓ |  |  |
| As a student, I can delete my post if I want to. | ✓ | ✓ | ✓ |  |  |
| **Student Profile** | As a student, I can edit my profile so that the information it holds is updated. | ✓ |  |  |  |  |
| As a student, I have a profile where it holds my information. | ✓ |  |  |  |  |
| **User Authentication** | As a student, I can sign up and register to TutoreCo so that I can be use the software for tutorial purposes. | ✓ |  |  |  |  |
| As a student, I can log into TutoreCo with my account. | ✓ |  |  |  |  |
| **Setting Schedule** | As a student, I have a list to track my schedule so that other students and I can keep track of when I'm free for tutorials or when I'm not. | ✓ | ✓ |  | ✓ |  |
|  | As a student, I can arrange a schedule with another student so we can have a tutorial session. | ✓ | ✓ |  | ✓ | ✓ |
|  | As a tutee, I can rate my tutor after our schedule of tutorial so it may reflect on his ranking/rating. | ✓ |  |  | ✓ |  |
| **Messaging** | As a student, I can message another student to discuss tutorial details before confirming the session. | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Notifications** | As a student, I can receive notifications of my upcoming tutorial sessions and messages | ✓ |  |  | ✓ | ✓ |
| **Admin** | As an admin, I can see all posts and messages made by all students to ensure security. | ✓ | ✓ | ✓ | ✓ | ✓ |
| As an admin, I can delete inappropriate posts made by students. | ✓ | ✓ | ✓ | ✓ | ✓ |

**IV. Software Testing**

1. **User Acceptance Criteria**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Acceptance Criteria** | **Status** |
| **Finding Tutor/ Tutees** | As a student, I can view posts made by Tutors in a panel so I can easily read posts made by tutors. | 1. There is a panel where all the posts made by Tutors are located 2. The page contains the necessary buttons. 3. Filter by subject is functional. | Done |
| As a student, I can view posts made by Tutees in a panel so I can easily read posts made by tutees. | 1. There is a panel where all the posts made by Tutees are located 2. The page contains the necessary buttons. 3. Filter by subject is functional. | Done |
| As a student, I can view list of tutors in the Tutor Directory so I can view it in one place efficiently. | 1. All the students who are tutors are listed 2. Tutors can be filtered by program, rating, gender. | Done |
| **Write Posts** | As a tutor, I can post an ad in the feed so possible tutees may know and set a schedule with me. | 1. User can input proper information into the feed through a functional and user-friendly form. 2. The entered information successfully goes into the database. 3. The post is reflected in the 'Post by Tutors' feed with necessary information 4. The database views are properly integrated in the database and servers. 5. It redirects to the Post by Tutors panel | Done |
| As a tutee, I can post an ad in the feed so possible tutors may know and set a schedule with me. | 1. User can input proper information into the feed through a functional and user-friendly form. 2. The entered information successfully goes into the database. 3. The post is reflected in the 'Post by Tutees' feed with necessary information 4. The database views are properly integrated in the database and servers. 5. It redirects to the Post by Tutees panel | Done |
| As a student, I can delete my post if I want to. | 1. The post has a delete button 2. The post is deleted from the database 3. The post can no longer be seen in the panel. 4. The post can no longer be found in the profile of the student. | Done |
| As a student, I can edit my post if I want to. | 1. The post has an edit button 2. The edits made are reflected in the database and in the user interface | Done |
| **Student Profile** | As a student, I can edit my profile so that the information it holds is updated. | 1. The information edited should be reflected in the database and in the design or UI | Done |
| As a student, I have a profile where it holds my information. | 1. There is a page for the student’s profile where the necessary information of the students is displayed 2. The student’s schedule can also be seen from the profile page 3. The posts made by the student is also in their profile page | Done |
| **User Authentica-tion** | As a student, I can sign up and register to TutoreCo so that I can be use the software for tutorial purposes. | 1. An account will be made and stored in database 2. An account can be made through entering the necessary fields of information. | Done |
| As a student, I can log into TutoreCo with my account. | 1. TutoreCo can be accessed through entering the correct username/password combination in the website. | Done |
| **Setting Schedule** | As a student, I have a list to track my schedule so that other students and I can keep track of when I'm free for tutorials or when I'm not. | 1. The schedule of the student can be seen in the student’s profile where other students can also view it. 2. Tutorial sessions of the student are also reflected in his/her schedule | Done |
|  | As a student, I can arrange a schedule with another student so we can have a tutorial session. | 1. Students can book a session with a student if he/she has made a post. 2. This will only be confirmed after a private messaging activity. |  |
|  | As a tutee, I can rate my tutor after our schedule of tutorial so it may reflect on his ranking/rating. | 1. After the schedule of tutorial, a notification will remind the tutee to rate his/her tutor. 2. The rating form is user-friendly and functional 3. The rating will be reflected to the tutor’s profile and his.her rating will be updated. | Done |
| **Messaging** | As a student, I can message another student to discuss tutorial details before confirming the session. | 1. There is a private messaging platform where two students can send messages for tutorial session arrangements. 2. Messages can be sent and read to and from. |  |
| **Notifications** | As a student, I can receive notifications of my upcoming tutorial sessions and messages | 1. The student will receive a notification of his/her upcoming tutorial session that is scheduled 7 days prior. 2. The student will also receive a notification is he/she has a message. |  |
| **Admin** | As an admin, I can see all posts and messages made by all students to ensure security. | 1. When an admin logs in, he/she can view all the posts made by students in a page designed just for administration use. |  |
| As an admin, I can delete inappropriate posts made by students. | 1. The admin can immediately delete posts that he/she deems inappropriate. |  |

**IV. Future Works**

* Calendar view for the schedules
  + A student can view his/her scheduled tutorial sessions in a more convenient calendar view.
* Online tutoring
  + For further convenience, the tutorial sessions can be held online, through a video call or a voice call. All sessions can be monitored by the admin.
* Send attachments
  + A student can send documents and photos through the messages to help explain his/her problem.