**3. Related Work/Novelty (600-800 words):**

By the time of our project, there is not this kind of app in our country. For enriching our project, we have researched around this topic and tried to benefit from experience of other similar projects which have been initiated in different parts of the world. While doing our research, we mainly focused on four main parts of the world: Europe, Asia, Africa and America.

In Europe, one of the startups is Aula Education. London based this application provides better communication between professors and students, so with the help of “feed” section, students can ask question in general, and find answer to their question faster. Users (students and teachers) can also send direct messages to each-others, if they have specific questions. They also can share any educational content. Feed part is the main feature which we want to add to our projects, so Azerbaijani students will get answer to their questions easily with the help of this feature. This project is enough successful in England, so it was found in 2016, and got value up to $4.2 million in two years.

Figure 1: Aula Education

Another example is from Africa. So in Kenya, there is a startup called Kytabu. This project is created because, Kenyans have to spend 54% of total income on education, especially, 50% they spend to the only buying books. Kytabu helps Kenyans to access to educational content easily, With the help of this application, schoolchildren can get educational resources in an affordable price, and even If they are not online, they still can access to the resources, such as, text contents, audios, and videos .If we consider in our some parts of our country, there is not still enough good internet connection, offline content is the feature which will be helpful for Azerbaijani learners, too.

Figure 2: Kytabu

There is one more example from Africa. In previous 2 examples, we checked the projects from the perspective of the learners. There is one startup which is developed in Cameroon called Akademia, it is social network application, which helps to connect the professors, academicians according to their educational intent, so when professors sign into the application, he states the interests, and application suggest possible connections. They can make great network with the help of this application, and It can be beneficial for the teachers/academicians in their future career. We also want to add this functionality to our project.

Figure 3 : Akademia

Next example is from Asia, South Korea. So the application is called Fast Campus. With the help of this application, Koreans can participate one-to-one classes with the teachers in different classes. Although there are many classes which students can take, this kind of learning style is mostly successful for learning foreign language, so Koreans can improve their communication skills in English with the help of this application. In our project, we also can provide one-to one meeting option, we believe that this feature will help the students especially who have less learning capacity and need more attention or shy. If we take into consideration that people are also interested in learning English, they can benefit from our app for learning this language, or any other language (Russian, French, German, etc.).

We want to use the experience in different part of the world in our project, therefore, we made a research, and the projects which we stated above is the most convenient to our project, and we are planning take several functionalities from each of these applications, and after adding some more functionality make the most optimal application which meet the needs of Azerbaijanis.

Reference:

* Kytabu Inc. 3rd Floor George Padmore Ridge George Padmore Road - Off Marcus Garvey 139 Village Market Nairobi Kenya 00621, 20 March 2019. <https://kytabu.africa>
* Fast Campus Co., Ltd. Kang-Min Lee. Business Number: 810-86-00658 Office: 15th  
  floor, Miwang Building, 364, Gangnam-daero, Gangnam-gu, Seoul. <https://www.fastcampus.co.kr>
* O'Prime Inc. Rue 976 Bessengue, Douala Cameroon February 12, 2020. <https://oprime.net>
* Aula Education ltd. Anders Krohn December 7, 2020 <https://aula.education>

**4. Chosen Solution (300-400 words):**

We are planning to make an application which students can benefit, even if they do not have internet connection. Therefore, we want to add at least, some education materials, so when they download our application, they get access to it, but to take into consideration it can take out some memory, we want to make it optional, so, if they want, they can save or delete it later. Another point is that we are planning to have one-to-one or group meeting in our application, and for this, we want to use API from other meeting software (such as Google meet, Zoom, or etc.). We will continue to search about it  
In our project, we are planning to use Scrum methodology, as our weekly meeting is similar to that, for monitoring, appliance of this methodology, we are thinking on using of Jira, so we can set tasks and deadlines for ourselves and organize tasks easily. One more advantage of Jira is that we can see our overall improvement with the help of this software. We also have Telegram group, where we can communicate to each other easily. For our hard skills, we did not have enough technical skills, so we enrolled several Udemy courses for gaining enough skills, so Allahverdi and Shamistan started to learn more about Java, and how it can be used as a backend, and Gunay and Konul decided learn Android app development courses. We are planning to use Spring framework in backend, we think that it will be good experience, but before we are coming to this option, we also searched about other backend languages, and between javascript and java, because of the familiarity from the college, we decided to choose it. We will continue to search more for best usages of the stated technologies.

**Development tools:**

* GitHub – Version Control System
* Jira – Project tracking
* Intellij idea – Backend development
* Android Studio – Frontend development