**EdAssist**

**Project Integartion Issue**

**Group Mmebers:**

Syeda Areesha Najam

Suhana

Sana

Ragini

Shalin

In this document we have discussed the integration plan we decided initially, followed by the reasons due to which we were not able to integrate our project with the decided group

**Initial Plan for integration:**

For the project EdAssist, we decided to integrate our work with E-Diary. The group members working on E-Diary include Omar- Ziaud-Din, Abdullah Fareed, Mustafa Madraswala, and Zoha Owais Karim. The decision for integration was taken based on the common entities we share in the database. These common entities include teachers, courses, and students. It is to mention here that as per class discussion and the mutual consent of both groups it was decided that the group working on E-Diary will design the database which will then be used by us. We planned to use the data entries for common entities and associate the entity of “Parent” with the fetched ones (teachers, students, and courses) as the entity of parent is only of our interest. This will then allow us to implement the PTM scheduler and test for the designed test cases. Note that the SRS document was shared among both groups. The SRS document for E-Diary is also uploaded on our GitHub repository for EdAssist.

**Reasons for not integrating with the deciding group:**

The following are the reasons why we were unable to complete our project's integration phase.

• Localhost: Since everyone's server is on localhost, moving it to the cloud and making it live is challenging. As per fact, no group would be able to perform project integration until everyone's server is live. The group working on E-Diary took responsibility on putting MongoDB database on clod. Unfortunately, on last day we got to know that they weren’t able to do this so we did not have any other option.

• Database Medium: It is to mention here that till sprint 1, both the group was confused on whether to use Mongo DB (NoSQL) or SSMS (SQL) as database medium. The mentioned confusion was unsolved till last weeks on the semester. Finally after exams, we got to know that the other group has started working with MongoDB. Due to communication gap, we were not able to **convince them** to shift on SQL, which we found convenient for ourselves. This was one of the major issue that we found SQL database more convenient whereas the other group found NoSQL database more convenient. Although both are open-source databases there is a major difference between the two. One of them is the way the data is stored. In MongoDB, each individual record is stored as a document whereas in MySQL it is stored as rows in a table, so integrating the two, was too time-consuming. Since we had our own dummy SQL database, we started working with that but due to connection issues we were facing, **in last hours we decided to shift to mongoDB. Come out that now we are using mongoDB as our medium. But these last hour shifts hindered our integration. The another group did not make APIs which we could use so we started off by making our own for MongoDB(NoSQL) database.**

• Time constraints: Until the end of sprint 1, we were unaware of the problems which we might face during the integration, essentially one of which is the live server issue. Initially, the main focus of both teams was to implement their user stories. During the last week, we were overburdened with exams which is why we didn’t get enough time to explore technical (coding) aspects and integrate.

• Lack of experience: Considering we do not have any prior experience in integrating the project using appropriate APIs, we were unaware of the issues which could possibly arise. Another group having different level or extent of experience made our communication and collaboration challenging. We were unclear on the technical aspects of the project hence couldn’t integrate. After exams, we were not able to have an in-person discussion, this also led to the gap in communication and it would be no wrong to sate “**miss-communication**” here.