

Grayson is a master student of Electrical and Computer Engineering at Duke University. He enrolled ECE551 this semester which is all about C/C++ programming. Grayson wants to learn another language Java during his spare time, but he found it hard to learn it by himself. Grayson thought it would be great if he can have a tutor instruct him. He asked professor X if he can instruct Grayson in his free time. Professor X declined him but recommend Grayson a mobile application called Peer Tutoring, which matches tutors with tutees at duke.

Marvin is a second-year master student of Computer Science at Duke University. He learned Java Programming last year and he heard that there is an application called Peer Tutoring which can help people instruct others and get paid. Marvin decides to give a try. He downloads the application and opens it. After signing up, filling his basic information (phone number, email, preferable subject, etc.), he firstly searches the session the tutees posted to check whether there is any he could sign up. If there exist multiple sessions, he goes to filter the most qualified tutee and signs up on his session. After that, all he needs to do is wait for the system to inform him that the session is successfully created, otherwise the tutee chooses another tutor. If there is no session available, he should post a session. Then a form with certain entries popped up. He entered his name, the location, the specific time, the topic he wants to teach and the pay he expects to receive, finally he clicks "Submit" button, then the page is directed to the session. After giving class, he could give his students some suggestions for further learning.

Grayson has taken Professor X's advice into consideration and downloaded the Peer Tutoring App on his cell phone. First, he registers on the system and fill in his personal information including his email, phone number and the subjects where he needs help and the subjects he is good at. First, he scans all the session and checks whether there is any session related with Java available for him. If there exists some session fits his need, he goes checking the basic information about the tutors including rating, comments, and etc. to find the most suitable tutor and sign up on this session. If there is no suitable session, he posts a request for help including location, time as well as the subject Java. After a while, if some tutors have signed up his session, he could also check the basic information among these tutors and filter the best candidate to cope with. A message would send to both Grayson and the tutor to inform them that the session is successfully created. After finishing the session, Grayson takes a while to rate his tutor and leave comments about the tutor.

Next page is user case diagram.