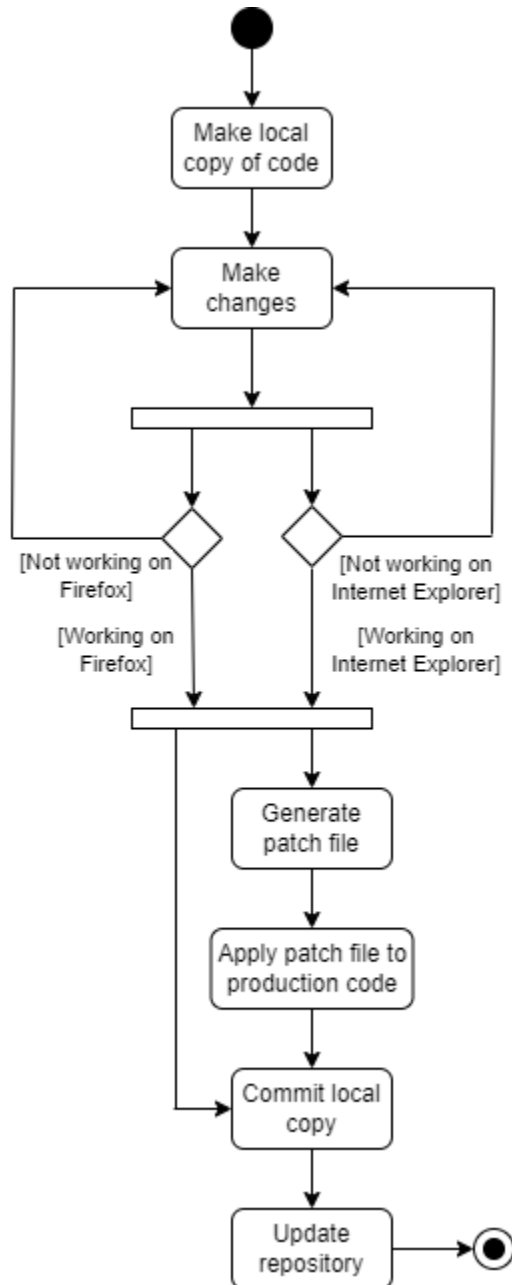


Software Engineering Lab 6

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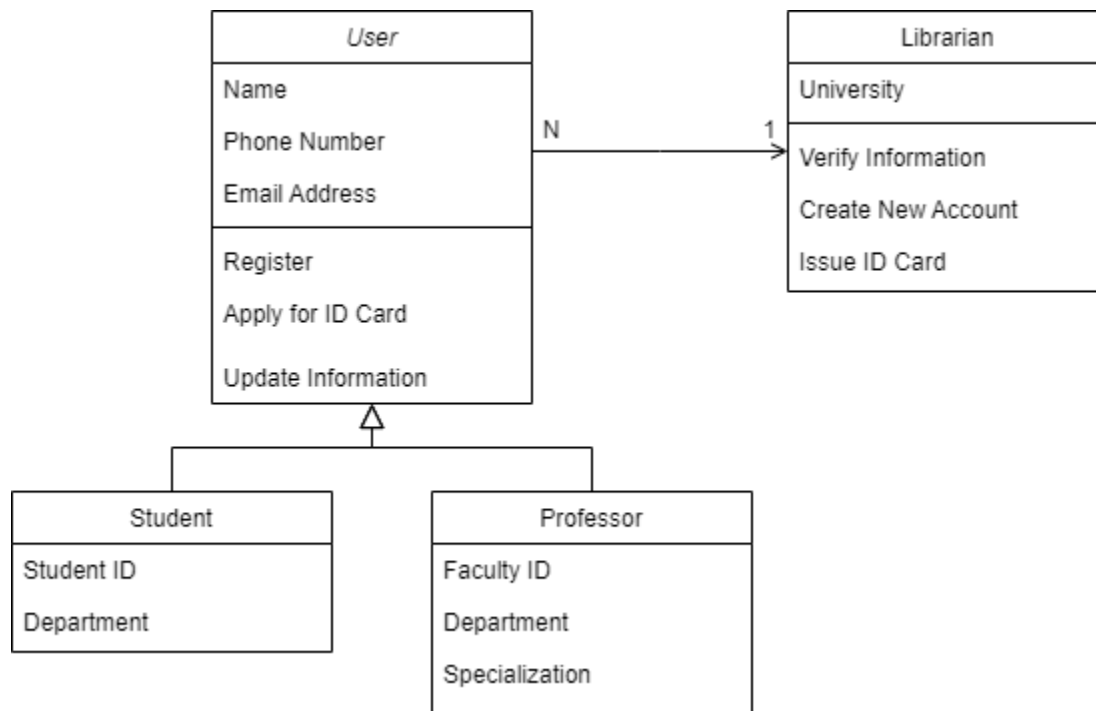
Student ID: 202101104

Question 1



First, the user makes a local copy of the code by cloning the remote repository. After making necessary changes, they can parallelly test the new functionalities on Firefox and Internet Explorer. I have created a fork to denote the parallel processes. If the new functionality works on both the browsers, they can either create the patch file or commit the changes to the remote repository without creating the patch file. After the patch file is successfully created, they commit the local copy and the repository gets updated.

Question 2



Here is the class diagram for registration on the library portal as specified in the case study. We have three classes of users: students, professors and librarians. Students and professors are generalized as users of the portal. A user typically enters their name, phone number and email address on the portal. A student can additionally enter their student ID and department, while a professor can enter their faculty ID, department and specialization. Both kinds of users can register at the portal, apply for a library card and update their information on the portal. The librarian can verify the submitted information, create a new account after verification and issue an ID card for a registered user.