1. Project number: S20-11

2. Project title (as will appear on the poster): RU Graduating?

3. Team members:
   - Avin Abraham
   - Amany Elgarf
   - Yuqing Feng
   - Nicholas Heah
   - Varun Ravichandran (POC)

4. Adviser(s) name(s):
   - Dr. Wade Trappe
   - Michael Lynn (MongoDB)

5. Up to 5 keywords that will help to classify the project scope:
   MongoDB, Course Planning, Mobile App Development, Progress Visualization, Data Modeling

6. Project abstract (up to 250 words) to be shared with judges:

   (General guidelines: The abstract should include: (a) A background review of the state of the art in the relevant field; (b) The problem addressed in the project; (c) Objective of the proposed projects; and (d) The adopted approach)

   All students at Rutgers University have their progress towards attaining their degree tracked by a website called “Degree Navigator”. However, many students struggle to use Degree Navigator because they find its interface unintuitive and confusing. For example, it does not provide clear visuals on how close students are to completing their degree or give any suggestions to ensure that they will graduate on time. In addition, Degree Navigator’s backend logic often does not align with program curricula, resulting in more confusion for students and advisors. As such, Degree Navigator is inefficient for administrators trying to develop degree pathways and for students trying to envision what lies ahead before graduation.

   Therefore, the objective of our proposed mobile app, “RU Graduating?” is to be a more effective service than Degree Navigator. We intend to fix present backend issues while maintaining core functionality, and provide a novel, personalized experience for all of our users via a simpler interface to display degree progress and completion. Users can plan
their future courses with assistance from our app’s course recommendation engine, streamlining their scheduling experience.

Our backend platform is MongoDB Stitch. MongoDB is the database where we are storing all courses, prerequisites, and requirements for program completion. We will use Stitch to allow our application to query and update the database. While we are currently focusing on making an Android app version of “RU Graduating?”, an iOS app should be attainable after we ensure quality app performance on the Android platform.