# Guide Android team specializations:

**UI :** UI design, UI patterns, graphics design or collaboration with a graphics specialist in VM, user experience.

**Back-End:**  Determine how to host Guide’s files online (video, JSON, audio, picture). Maintain the servers and database. Others should be able to add/remove items from the database, but this specialist is responsible for ensuring that the modifications are valid.

**Unit Testing:** Test all non-UI classes (such as the Place class). If possible, design UI unit tests as well. Report any bugs as issues on Github.

**Data Gathering:** Gather appropriate for every field of every Place that Guide will have. This includes pictures, audio, video, descriptions, hours, categories, and any other field in the Place class. This role may involve collaboration with the Ambassadores.

**OOP & Algorithms:** Design utility classes for Guide. Examples include JSON parsing, Place class, Tour class. Use good design patterns in design of classes. Ensure proper threading is used when necessary, such as when pulling data from the Internet. Design/implement harder algorithms, such as the one for finding tour paths.