**Introduction:**

The purpose of this report is to describe the technology and infrastructure chosen for the development of the Swiggy mobile application. The report explains why Flutter, a cross-platform development framework, was selected over other options and describes the supporting infrastructure, including cloud services and databases.

**Technology Selection:**

After evaluating various cross-platform development frameworks, the decision was made to use Flutter for the Swiggy mobile application development. Flutter is an open-source UI software development kit created by Google, which allows the developer to write a single code base that can be deployed on both iOS and Android platforms. Some of the reasons why Flutter was selected include:

1. Cross-Platform Support: Flutter provides the ability to develop applications that can run on both iOS and Android platforms with a single code base, which significantly reduces development time and cost.

2. Fast Development: Flutter's hot reload feature allows developers to see the changes made to the codebase in real-time, which accelerates the development process and allows for faster iterations.

3. User Interface: Flutter has a robust set of customizable widgets, which makes it easy to create visually appealing and responsive UI components.

4. Community Support: Flutter has a growing and supportive community of developers, which provides access to various resources, including plugins, libraries, and tools.

**Infrastructure:**

To support the development and deployment of the Swiggy mobile application, the following infrastructure components were selected:

1. Cloud Services:
2. Databases:
3. Backend APIs:

Conclusion:

In summary, Flutter was chosen as the cross-platform development framework for the Swiggy mobile application due to its cross-platform support, fast development, robust UI capabilities, and supportive community. The supporting infrastructure includes Google Cloud Platform for hosting, Firebase Realtime Database and Cloud Firestore for database management, and Node.js and Google Cloud Functions for backend API development. These technologies were selected to ensure scalability, availability, and cost-effectiveness while providing a seamless user experience.