**SKYDOT**

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The rise of microservices has been a remarkable advancement in application development and deployment. With microservices, an application is developed or refactored into individual services that have the capability to communicate with one another through a common template, for instance APIs. Each service is self-contained, manages its own data storage and can be updated independently of other services. Moving to a microservice-based approach makes application development faster and easier to manage; requiring fewer people to develop and maintain the system. A system designed as a collection of microservices is easier to run on multiple servers and, in the case of this project, multiple cloud environments with load balancing. This allows for better handling of demand spikes and of slower increases in demand over time while reducing downtime caused by hardware or software problems.

Skydot is a cloud based, microservice architecture that allows companies to minimize the cost of cloud and on-premise services and provides an environment where developers can utilize any language that best suits their needs and/or skills. This is achieved by utilizing a universal REST API and auto scaling services and apps. Skydot also fronts backend services, databases and other resources via a REST translation layer. This way backend services won’t have to change to adopt new technologies and new services won’t have to accommodate for old technologies. The project will be presented as a mobile banking service providing data for mobile applications.