

Assignment: Serverless

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1 Context

You are working for a newly created Bank called *Bank98*. During the creation of a new banking platform this company decides to invest in a prototype to evaluate the usage of Serverless/FaaS for further services. You are free to choose which FaaS Provider you want to use: e.g. create a free personal account for AWS, Azure, or Google Cloud; or set up your own on-premise FaaS platform like Openfaas.

2 Tasks

Task 1: Implement a Prototype:

The scope of the prototype is quite limited. The goal is to create three functions which communicate with each other and can store data. Those three functions are:

- Customers: Stores and persists customers with a name, address, and an IBAN. Customers can be fetched and created. The usecase, that customers can have multiple bank products, and therefore multiple IBANs can be ignored for this prototype.
- Transactions: Stores transactions between specific IBANs. In addition to an execution date, an amount, and a description, these transactions should also contain a creditor and debtor IBAN.
- Monthly Report: This function takes an IBAN and returns a JSON that includes the customer information, and the list of transactions for a specified month.

Task 2: Evaluate Usage of FaaS-Frameworks

In a second step take a look at frameworks like the Serverless-Framework, or ClaudiaJS to make an assumptions if those frameworks could be a useful choices for the creation of applications based on FaaS. Provide a management summary (one slide) that endorses your argumentation.