**APIs Specifications and Design**

**Card2Use**

Website: [www.](http://www.creditkaam.com)Card2Use.com

Mobile App: Card2Use

This document provides: requirements, design, and development of the Card2Use APIs

[**Executive Summary**](#_30j0zll) **3**

[Business Problems](#_3whwml4) 3

[Solution](#_2bn6wsx) 3

[**Architecture**](#_1fob9te) **3**

[Web and Mobile App Architecture (with Google Cloud, may change if AWS)](#_3znysh7) 3

[APIs Architecture](#_2et92p0) 4

[**APIs Specifications**](#_tyjcwt) **4**

[APIs Framework/Tools](#_3dy6vkm) 5

[Things to consider](#_1t3h5sf) 5

[Authentication API](#_4d34og8) 5

[Edge Infrastructure APIs](#_2s8eyo1) 6

[Edge Devices Config APIs (IoT Controller)](#_17dp8vu) 6

[Edge Sensors Data APIs](#_3rdcrjn) 7

[Card2Use Monitor (Admin Usage, to be used by Card2Use internal)](#_26in1rg) 7

[Data Analysis APIs](#_lnxbz9) 8

[Microservices APIs](#_35nkun2) 8

[Users APIs](#_1ksv4uv) 8

[**Microservices Specifications**](#_qsh70q) **9**

[**Design**](#_z337ya) **10**

[**Development and Testing Strategy**](#_3as4poj) **10**

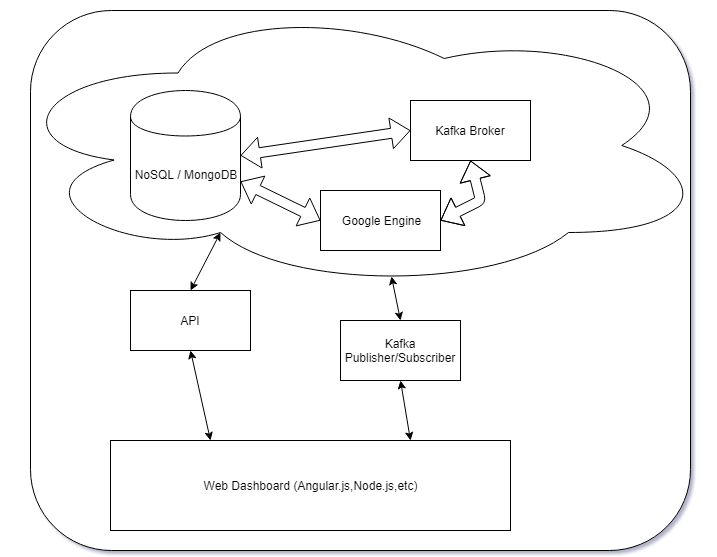
[**Payment Milestones**](#_1pxezwc) **10**

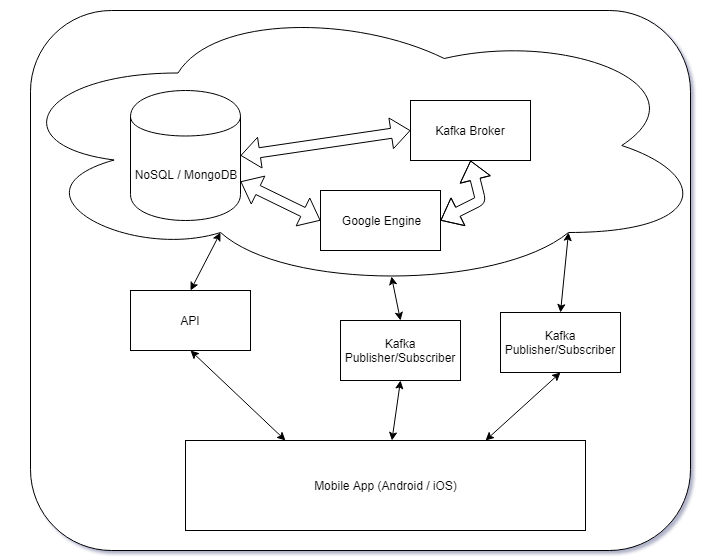
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### Executive Summary

### Architecture

#### Web and Mobile App Architecture (with Google Cloud, may change if AWS)





#### APIs Architecture

### APIs Specifications

#### APIs Framework/Tools

* RESTful CRUD
* NodeJS/ExpressJS
* Joi - Validation
* Swagger
* POSTMAN
* Cassandra (NoSQL DB)
* JSON
* BitBucket
* draw.io

#### Things to consider

* Country (Every country will have different credit cards database)
* APIs to be called by
  + mobile apps
  + web apps
  + partners 3rd party app
* Kafka Broker
* Caching
* Response Time
* Partner Access
* Token/OAUTH2.0 Authentication
* Postman/Swagger Testing Automation
* API Server
* Server Ports
* Load Balancer
* Cloud Hosting (AWS/Azure/Google Cloud)
* APIs Analytic
  + Monitoring APIs usage, threshold, traffic, users, timeline, location

Following are the different categories of APIs that need to be designed and implemented:

#### 

#### 

#### 

#### i) Authentication API

CREATE

* NA

RETRIEVE

* getToken

UPDATE

* NA

DELETE

-NA

#### My Cards APIs

CREATE

* NA

RETRIEVE

* *getMyCards*

UPDATE

* NA

DELETE

-NA

#### Card2Use APIs

CREATE

* NA

RETRIEVE

* + *getBestCardToUse*

UPDATE

* NA

DELETE

-NA

#### iv. Card2Use Monitor (Admin Usage, to be used by Card2Use internal)

CREATE

* NA

RETRIEVE

* + *getReportOnLocation*
  + *getReportOnCardType*
  + *getReportOnBusinessType*
  + *getReportOnBankType*
  + *getMostPopulerCard*
  + *getUsersList/country/*

UPDATE

* NA

DELETE

-NA

#### Login API

CREATE

* NA

RETRIEVE

* + *getLogedin*

UPDATE

* NA

DELETE

-NA

#### Wallet Configuration APIs

CREATE

* + *postCardToWallet*

RETRIEVE

* + NA

UPDATE

* NA

DELETE

-NA

#### Registration API

CREATE

* + NA

RETRIEVE

* + NA

UPDATE

* *putUpdateInfo*

DELETE

-NA

#### My Offers

#### CREATE

* + NA

RETRIEVE

* + *getMyOffers*

UPDATE

* NA

DELETE

-NA

#### User Profile

#### CREATE

* + NA

RETRIEVE

* + *getMyProfile*

UPDATE

* NA

DELETE

-NA

**xi. Delete Card**

#### CREATE

* + NA

RETRIEVE

* + NA

UPDATE

* NA

DELETE

- deleteCard

**xii. List of most used card based on location**

#### CREATE

* + NA

RETRIEVE

* + getMostUsedCard

UPDATE

* NA

DELETE

- NA

**xiii. Add bank based on location for admin**

#### CREATE

* + postBank

RETRIEVE

* + NA

UPDATE

* NA

DELETE

- NA

**xiv. Add card types with bank and location by Admin**

#### CREATE

* + postCardTypes

RETRIEVE

* + NA

UPDATE

* NA

DELETE

- NA

**xv. List of banks based on location**

#### CREATE

* + NA

RETRIEVE

* + getBankList

UPDATE

* NA

DELETE

- NA

**xvi. List of banks based on location**

#### CREATE

* + NA

RETRIEVE

* + getBankList

UPDATE

* NA

DELETE

- NA

**xvii. Post card benifits from admin**

#### CREATE

* + postCardBenifits

RETRIEVE

* + NA

UPDATE

* NA

DELETE

- NA

**xviii. List of banks based on location**

#### CREATE

* + NA

RETRIEVE

* + getBankList

UPDATE

* NA

DELETE

- NA

**xix. List of cards based on location and bank**

#### CREATE

* + NA

RETRIEVE

* + getAllCardList

UPDATE

* NA

DELETE

- NA

**xx. Add missing cards**

#### CREATE

* + postMyCard

RETRIEVE

* + NA

UPDATE

* NA

DELETE

- NA

**xxi. Add Review**

#### CREATE

* + postReview

RETRIEVE

* + NA

UPDATE

* NA

DELETE

- NA

**xxii. List review for admin**

#### CREATE

* + NA

RETRIEVE

* + getReviewList

UPDATE

* NA

DELETE

- NA

**xxiii. Contact us**

#### CREATE

* + postContactRequest

RETRIEVE

* + NA

UPDATE

* NA

DELETE

- NA

**xxiv. List contact request for admin**

#### CREATE

* + NA

RETRIEVE

* + getContactRequestList

UPDATE

* NA

DELETE

- NA

**xxv. Add FAQ for admin**

#### CREATE

* + postFAQ

RETRIEVE

* + NA

UPDATE

* NA

DELETE

- NA

**xxvi. List FAQ**

#### CREATE

* + NA

RETRIEVE

* + getFAQ

UPDATE

* NA

DELETE

- NA

**xxvii. Edit FAQ for admin**

#### CREATE

* + NA

RETRIEVE

* + NA

UPDATE

* putFAQ

DELETE

- NA

**xxviii. Delete FAQ for admin**

#### CREATE

* + NA

RETRIEVE

* + NA

UPDATE

* NA

DELETE

- deleteFAQ

**NB :**

**Common Error Code for All API :**

#### 400 (Bad Request)

#### 401 (Unauthorized)

#### 403 (Forbidden)

#### 404 (Not Found)

#### 405 (Method Not Allowed)

#### 500 (Internal Server Error)

**Common Success code for all API**

200(OK)

### Design

This section provides High Level Design of each components of the API solutions. Architecture section will have the diagram and this section will have extension of Architecture in detail.

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### Development and Testing Strategy

### Project Schedule

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