Objective

This is to keep track of all API agreements between Mobile-UI, Admin-web UI & Server.

Module

1. Admin UI
2. Mobile UI
3. Notification Engine
4. Tracking Server
5. Data Management Platform

Tech-Stack

1. Mongo-DB(Open Source, can be used for Analytics as well as Revel ORM is available)
2. GoLang (Server Side Processing)
3. Revel-Web framework(Lightweight Rest API framework fo Go)
4. Java for Android(Mobile app)
5. Angular.js : Theme based(If required for Admin UI)

Common Data Formats

Success - response	{
	  "status": true,
	  "statusCode": 200,
	  "message": "Successful",
	  "data": {}
	}

Validation error	{
	        "status": false,
	        "statusCode": 404,
	        "message": "Parameter validation error : Description field is required",
	        "data": {}
	}

Version 1.0

1. Admin UI

   1.1 Create Offer

URL	/v1/offer/create
Method	POST
Parameters in Header	token :qweASDzxc9870

Request	{

	"name": "Install NewsHunt",
	     "tagLine": "Newshunt app: Install",
	     "type": 1,
	     "unit": 50,
	     "gpRating": 4.1,
	     "appSize": 4.4,
	     "adCategory":1,
	     "iconUrl": "www.google.image.com/newshunt.png",
	     "company": "Newsapp.com",
	     "desc": "News from all channels aggregated",
	     "currency": "$",
	     "subDetails": [
	          "Install now use for one day earn more",
	          "Newyear Offer 15RS more on usage in one month"
	     ],
	
	     "countryIds": [10, 15, 20],
	     "ageGroupIds": [2, 3, 4],
	     "bannerUrl": "ww.google.image.com/baaner.png",
	     "startDate": "01/12/2016",
	     "endDate": "31/12/2016",
	     "maxUnit": 1000,
	     "advertiserPayment": 65,
	     "profit": 15,
	  "targettedUserCredit": [1,2]
	
	"Creatives": [
	{ url: "www.google.images.com/ image_480_240.png"
	},{
	
	 url: "www.google.images.com/ image_280_140.png"
	}
	]
	
	}

Response	Standard Success Response

Parameter Definition	a. "Type" : Kind of Offer we are running
	
	1 :Click
	2: Install (Default)
	3. Survey
	4. Purchase
	
	b. "targettedUserCredit" : User classification
	
	1: Silver
	2:Gold
	3:Platinum
	
	C. AdCategory (Multiple Category is applicable)
	
	    1. Offer listing
	    2. Overlay ad
	    3. Contest
	    4. M-web

ScreenShots	

1.2 Edit Offer

URL	/v1/offer/update?id=12345
Method	POST
Parameters in Header	token :qweASDzxc9870

Request	{
	  "status":1
	}

Response	Standard Success Response
Parameter Definition	"status" 1 : Active 2: Paused 3. Stopped

1.3 List Rss Feed on Lock Screen

URL	/v1/rss/all
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	

Response	```
	{
	  "status": true,
	  "statusCode": 200,
	  "string": "",
	  "Data": [
	    {
	      "id": "",
	      "name": "Yogi Adityanath's Rs 36,359 cr farmer loan waiver: Political points scored, good economics goes for a toss",
	      "icon_url": "www.firstpost.com/favicon.ico",
	      "company": "Firstpost",
	      "desc": "Loan waiver isn't the solution for farmer issues; there are many things the governments can do",
	      "banner_url": "http://s2.firstpost.in/wp-content/uploads/2017/04/Yogi-Adityanath_PTI.jpg",
	      "start_date": "0001-01-01T00:00:00Z",
	      "end_date": "0001-01-01T00:00:00Z"
	    }]
	}
	``

1.3 List Offers

URL	/v1/offer/list
Method	GET
Parameters in Header	token :qweASDzxc9870

Request	{
	  "status": true,
	  "statusCode": 200,
	  "string": "",
	  "Data": [
	    {
	      "id": "584de13847c4cc9c988e2929",
	      "name": "test offer name",
	      "tag_line": "tag_line",
	      "type": 1,
	      "unit": 2,
	      "event": "event",
	      "gprating": 4,
	      "app_size": 5,
	      "icon_url": "icon_url_",
	      "company": "company_name",
	      "desc": "desc",
	      "currency": "dollar",
	      "sub_details": [
	        "subdetails 1",
	        "subdetails 2"
	      ],
	      "country_ids": [
	        1,
	        2,
	        3
	      ],
	      "age_group_ids": [
	        1,
	        2,
	        3
	      ],
	      "banner_url": "banner url",
	      "start_date":
	"2016-05-05T00:00:00Z",
	      "end_date":
	"2017-05-05T00:00:00Z",
	      "max_unit": 3,
	      "advertiser_payment": 6,
	      "profit": 7,
	      "targetted_user_credit": [
	        1,
	        2,
	        3,
	        4
	      ]
	    }
	  ]
	}

Response	Standard Success Response

1.4 Search Offers

URL	/v1/offer/search?status=Active
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	
Response	Standard Success Response

1.5 Show Offer

URL	/v1/offer/show?id=1234
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	

Response	{
	  "status": true,
	  "statusCode": 200,
	  "string": "",
	  "Data": {
	    "id": "584de13847c4cc9c988e2929",
	    "name": "test offer name",
	    "tag_line": "tag_line",
	    "type": 1,
	    "unit": 2,
	    "event": "event",
	    "gprating": 4,
	    "app_size": 5,
	    "icon_url": "icon_url_",
	    "company": "company_name",
	    "desc": "desc",
	    "currency": "dollar",
	    "sub_details": [
	      "subdetails 1",
	      "subdetails 2"
	    ],
	    "country_ids": [
	      1,
	      2,
	      3
	    ],
	    "age_group_ids": [
	      1,
	      2,
	      3
	    ],
	    "banner_url": "banner url",
	    "start_date": "2016-05-05T00:00:00Z",
	    "end_date": "2017-05-05T00:00:00Z",
	    "max_unit": 3,
	    "advertiser_payment": 6,
	    "profit": 7,
	    "targetted_user_credit": [
	      1,
	      2,
	      3,
	      4
	    ]
	  }
	}

1.6 Unlock Offers

URL	/v1/wallet/unlock

Method	POST
Parameters in Header	Auth :qweASDzxc9870
| Request | ```
{
        "points": [{
                "offerID": "123",
                "point": 10,
                "type": "left"
        }, {
                "offerID": "103",
                "point": 10,
                "type": "right"
        }]
}
``` |
| Response | Standard Success Response |

2. Mobile UI

2.1 List Offers for User (Need to split this api and lock screen api- feed api contains rss feed and offers)

URL	/v1/user/offers?types=1,2
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	

Response	{
	  "status": true,
	  "statusCode": 200,
	  "message": "Successful",
	  "data": [
	{
	
	      "name": "Install NewsHunt",
	      "tagLine": "Newshunt app:
	Install",
	      "type": 1,
	      "unit": 50,
	      "gpRating": 4.1,
	      "appSize": 4.4,
	      "iconUrl":
	"www.google.image.com/newshunt.png",
	      "company": "Newsapp.com",
	      "desc": "News from all channels
	aggregated",
	      "currency": "$"
	
	},
	      {
	
	      "name": "Install olx App now",
	      "tagLine": "Install and get first
	purchase freee",
	      "type": 1,
	      "unit": 50,
	      "gpRating": 3.1,
	      "appSize": 4.3,
	      "iconUrl":
	"www.google.image.com/olx.png",
	      "company": "olx.com",
	      "desc": "Sell and buy old items
	within seconds",
	      "currency": "$"
	
	}
	
	]

Parameter Definition	Type:Label 1:New(Within 3 days) 2:Existing(Active Offer) 3:Missed(Not used) 4:Converted(Participated Offer)
Backend Constraints	List should be filtered out with geo, age group, user credit classification
Screen Shots	https://drive.google.com/open?id=0B9qLl6xYpsg8UVFIOVhiWWI5R3c

2.2 Offer Details to User

URL	/v1/user/offer?id=1234
Method	GET
Parameters in Header	token :qweASDzxc9870

Request	{
	  "status": true,
	  "statusCode": 200,
	  "message": "Successful",
	  "data": {
	
	        "name": "Install NewsHunt",
	        "tagLine": "Newshunt app: Install",
	        "type": 1,
	        "unit": 50,
	        "gpRating": 4.1,
	        "appSize": 4.4,
	        "iconUrl": "www.google.image.com/newshunt.png",
	        "company": "Newsapp.com",
	        "desc": "News from all channels aggregated",
	        "currency": "$",
	  "subDetails": [
	                "Install now use for one day earn more",
	                "Newyear Offer 15RS more on usage in one month"
	        ]
	
	}

Response	Standard Success Response
Backend Constraints	Validate the Offer has crossed daily limit/ download limit Validate User has already crossed his daily limit of transactions

2.2 List lockscreen api

2.3 List Installed Apps by User

URL	/v1/user/apps
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	

Response	{
	  "status": true,
	  "statusCode": 200,
	  "message": "Successful",
	  "data": [{
	
	                    "name": "Skype",
	                    "package_name":
	"com.app.skype.com",
	                    "data": 15,
	                    "measure": "MB",
	                    "icon":
	"www.google.image.com/skype"
	
	            }, {
	
	                    "name": "Facebook",
	                    "package":
	"com.app.facebook.com",
	                    "data": 20,
	                    "measure": "MB",
	                    "icon":
	"www.google.image.com/facbook"
	
	            }
	
	]
	}

Backend Constraints	This is the list of apps through which user is asked to use for some criteria and win some data/money
Screenshot	https://drive.google.com/open?id=0B9qLl6xYpsg8Y2hpNlFiVG96SXc

2.4 Contest of the Day

URL	/v1/user/contest
Method	GET

Parameters in Header	token :qweASDzxc9870
Request	

Response	{
	  "status": true,
	  "statusCode": 200,
	  "message": "Successful",
	  "data":{
	      "imageUrl": "www.google.com/contest_for_bonus.jpg",
	      "description": "Win 3 Bonus Point by installing 3 Apps today."
	
	  }
	}

Backend Constraints	The contest winning by user will be decided by tracking the installs or usage as per criteria set by Admin
ScreenShot	https://drive.google.com/open?id=0B9qLl6xYpsg8bmhvcnRUUE5Pd0E

2.5 User Profile

URL	/v1/user/profile
Method	GET
Parameters in Header	token :qweASDzxc9870

Request	{
	      "name": "Giri",
	      "mob": 90909090,
	      "email": "giri@gs.com",
	}

Response	Standard Success Response
Optional Parameters	

2.4 Wallet Balance

URL	/v1/user/wallet
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	

Response	```{
	  "status": true,
	  "statusCode": 200,
	  "message": "Successful",
	  "data":
	{
	        "currency": "$",
	        "amount": 100,
	        "data": 93,
	        "dataUnit": "MB"
	
	}
	}```

Optional Parameters	

2.5 Wallet Earning History

URL	/v1/user/wallet/earnings? limit=10&offset=10
Method	GET
Parameters in Header	token :qweASDzxc9870

Response	```{
	  "status": true,
	  "statusCode": 200,
	  "message": "Successful",
	  "data": [{
	        "date": "10/11/2016",
	        "type": "Install",
	        "name": "Installed News Hunt
	App",
	        "earning": "10 Rs"
	}, {
	        "date": "25/11/2016",
	        "type": "Survey",
	        "name": "Survey in new Google
	Pixel ",
	        "earning": "15 MB "
	}]
	}```

2.6 Wallet Redeem History

URL	/v1/user/wallet/redeems? limit=10&offset=10
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	

Response	{
	 "status": true,
	 "statusCode": 200,
	 "message": "Successful",
	 "data": [{
	     "date": "10/11/2016",
	     "name": "Transferred amount to Doku Wallet",
	     "redeem": "10 Rs"
	}, {
	     "date": "20/11/2016",
	     "name": "Redeemed on Vodafone data",
	     "redeem": "15 MB"
	}]
	}

Optional Parameters	

3. Notification Engine

3.1 New Offers Push Message

Details to register by Mobile App	AgeGroup Geo User Credit Category

3.2 Wallet Update Push Message

Details to register by Mobile App	UserId

3.3 User Registration SMS

Content	"Your Datamore verification code is: 123456"

3.3 User Registration Email

Mail Format	Hi, Your Account with Datamore has been activated. …… Thanks support@datamoreteam.com

4. Tracker

4.1 Track Click

This is listening API in DM which received a successful transaction from tracker and finance calculations are updated using the same & history is saved on user

Tracker URL	http://track2.adcamie.com/aff_c? offer_id=11&aff_id=99&unid={*token*}

Method	GET
Parameters in Header	offer_id: *123(offer)* aff_id: *99(offer)* unid: *19321932131293* device_brand: *samsung* device_model: *j5* device_os: *android* device_os_version: *5.1* google_aid: *7218271937* event_id: *install(constant for click not dynamic)*
Request	
App Postback URL	http://163.47.11.70:9000/v1/track/conversion?unid={unid}&offer_id={offer_id}&aff_id={aff_id}&device_brand={device_brand}&device_model={device_model}&device_os={device_os}&device_os_version={device_os_version}&google_aid={google_aid}&event_id={goal_id}&transaction_id={transaction_id}
Optional Parameters	

5. DMP

4.1 Track App Analytics Daily

This is listening API in DMP which received daily history of app usage by user

URL	/v1/dmp/add/usage
Method	POST
Parameters in Header	token :qweASDzxc9870

Request	{
	
	}

Response	{
	"status": true,
	"statusCode": 200,
	"message": "Successful",
	"data":
	{
	}
	}
Optional Parameters	

User Management

Email Signup:

URL	**/users/signup**
Method	POST
Parameters in Header	token :qweASDzxc9870
Request	**"email=harshad0402@gmail.com"** **"password=password"**

Response	**Success Response:**
	{
	  "Data": {
	   "ID": 0,
	    "CreatedAt":
	"0001-01-01T00:00:00Z",
	    "UpdatedAt":
	"0001-01-01T00:00:00Z",
	    "DeletedAt": null,
	    "Email":
	"harshad0402@gm.com",
	    "Authentications": null,
	    "Preferences": ""
	  },
	  "Message": "User
	successfully created"
	    }
	
	    Error Response:
	    { "Error": "User already exists"
	}

Optional Parameters	

Email Login:

URL	[**/users/**](#)login
Method	POST
Parameters in Header	token :qweASDzxc9870
Request	**"email=harshad0402@gmail.com"** **"password=password"**

Response	Success Response:
	{
	  "Data": {
	    "ID": 2,
	    "CreatedAt": "2017-01-18T10:29:24Z",
	    "UpdatedAt": "2017-01-18T10:29:24Z",
	    "DeletedAt": null,
	    "Email": "harshad0402@gmail.cc",
	    "Authentications": null,
	    "Preferences": ""
	  },
	  "Message": "User successfully authenticated"
	}
	
	Error Response:
	{ "Error": "unregistered email" }

Optional Parameters	

Logout:

URL	/users/logout
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	
Response	Success Response: { "Message": "User logged out" } Error Response: { "Error": "User not logged in" }

Optional Parameters	

Profile:

URL	[/users/](#)profile
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	

Response	**Success Response:**
	{
	  "ID": 1,
	  "CreatedAt":
	"2017-01-18T10:14:41Z",
	    "UpdatedAt":
	"2017-01-18T10:14:41Z",
	    "DeletedAt": null,
	    "Email":
	"harshad0402@gmail.com",
	    "Authentications": null
	}
	
	Error Response:
	{
	  "Error": "User not logged in"
	}

Optional Parameters	

Set Preferences:

URL	[/users/](#)set_preferences
Method	POST

Parameters in Header	token :qweASDzxc9870
Request Body	preferences[] = news preferences[] = wallpaper Preferences[] = quotes
Response	**Success Response:** **{** **"Message": "Preferences successfuly saved"** **}** **Error Response:**

5. Pixlock (New changes)

5.1 Bucketed Screens(*Mobile UI*)

URL	localhost:9000/v1/screens/bucket?offset=1
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	
Response	Standard Success Response

5.2 Admin Approve Screens(*Admin UI*)

URL	localhost:9000/v1/screens/approval
Method	POST
Parameters in Header	token :qweASDzxc9870

Request	{
	        "id": "5964df589637f27d04696879",
	        "comments": "approved",
	        "approval": true,
	        "bucketDate": "2017-07-11"
	
	}

Response	Standard Success Response

5.3 Create Screens(*Admin UI*)

URL	localhost:9000/v1/screens/create
Method	POST
Parameters in Header	token :qweASDzxc9870

Request	{
	
	    "category" : "fashion",
	
	    "author" : "PublicDomainPictures",
	
	    "filename" : "call-15758_150.jpg",
	
	    "authorURL" : "https://cdn.pixabay.com/user/2012/03/08/00-13-48-597_250x250.jpg",
	
	    "collectionURL" : "https://pixabay.com/users/PublicDomainPictures-14/",
	
	    "shortViewURL" : "https://s3.ap-south-1.amazonaws.com/pixlock/pixabay_processed_images/call-15758_150.jpg",
	
	 "credits" : "Photo by PublicDomainPictures-14/PixaBay",
	    "processed" : true,
	    "approved" : true,
	    "uploaded" : true
	}

Response	Standard Success Response

5.4 Upload Screens(*Admin UI*)

URL	localhost:9000/v1/image/upload?status=processed
Method	POST
Parameters in Header	token :qweASDzxc9870 status: processed/unprocessed
Request	Multi-part form data file:----------file in bytes----- file:----------file in bytes-----
Response	Standard Success Response

5.5 Search Bucketed Screens(*Admin UI*)

URL	localhost:9000/v1/search/bucket?offset=1&bucketdate=2017-07-11
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	
Response	Standard Success Response

5.5 Feedback Create (*Mobile UI*)

URL	localhost:9000/v1/feedback/create
Method	POST
Parameters in Header	token :qweASDzxc9870

Request	{
	    "userID" :"test",
	    "subject":"test",
	    "description":"testing feedbacks api"
	}

Response	Standard Success Response

5.6 Feedback List (*Admin UI*)

URL	localhost:9000/v1/feedback/list?offset=1
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	

Response	{
	   "status": true,
	   "statusCode": 200,
	   "string": "",
	   "Data": [
	     {
	       "_id":
	"5965f5e7a487aaa032213e3d",
	       "userID": "test",
	       "subject": "test",
	       "description": "testing feedbacks
	api",
	       "lastUpdatedAt":
	"2017-07-12T15:41:51.39+05:30"
	     }
	   ]
	}

5.7 All Screens(*Admin UI*)

URL	localhost:9000/v1/screens/all?offset=1
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	
Response	Standard Success Response

5.8 Processed Screens(*Admin UI*)

URL	localhost:9000/v1/screens/processed/all?offset=1
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	
Response	Standard Success Response

5.7 Uploaded Screens(*Admin UI*)

URL	localhost:9000/v1/screens/uploaded/all?offset=1
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	
Response	Standard Success Response

5.8 Approved Screens(*Admin UI*)

URL	localhost:9000/v1/screens/approved/all?offset=1
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	
Response	Standard Success Response

5.8 Dis Approved Screens(*Admin UI*)

URL	localhost:9000/v1/screens/disapproved/all?offset=1
Method	GET
Parameters in Header	token :qweASDzxc9870
Request	
Response	Standard Success Response

References
1. Google Vision API for image annotation

Facebook Login:

curl -X GET "http://163.47.11.70:9000/auth/facebook"
curl -X GET "http://163.47.11.70:9000/auth/facebook/callback"

Google Login:

curl -X GET "http://163.47.11.70:9000/auth/gplus"

1. **Pixabay download images & upload to S3**
2. **API upload multiple images unprocessed & processed**
3. **Buckets for daily, unique for day by day**
4. **On approval date selection of buckets**
5. **Filter based on device_id(not now)**
6. **Feedback api: save feedback with subject + desc and list api**