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## Third-party API Integration to Applications

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Abstract – web applications now ruling the world as a solution for knowledge sharing with different agents. This paper gives the idea that how to integrate the third party API's. Nowadays companies and organizations are using the REST API's as a way to create and integrate web services from different application for knowledge sharing and communication so this has reduced the complexity of many systems in the world .In this paper, a way to integrate third party api's has been discussed.

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#### 1. INTRODUCTION

API stands for application programming interface .An API is something which is used for talking of two applications each other. Third party APIs are developed by third party, in which APIs enable the developers to build the complex processes easily usable. So a good API makes it easy to develop a program. We can also say api is an messenger that delivers the request to the client and delivers the response. The speed that APIs makes our applications makes reusable with a small amount of code. To design and integrate the good APIs we need a procedure to be followed such that correct authentication with the server can be achieved and then only we can proceed for the next steps.

Rest APIs are the current trends in which many companies are following so REST APIs are API such as GET,POST,PUT methods are used as the new way to integrate the web services which has many advantages such as lightweight, human readable results, easy services.

#### 2. BENEFITS

**Fewer costs** – since the applications use the functions of other applications, development need less time to build the APIs with good features, which eventually reduces the cost.

**Value –** Third-party API integration will become unique selling proportion and help application to stand out from crowd.

**Convenience-** APIs make app easily accessible via channels application users interact with. We can make even more convenient to users by using API of Facebook for social login, Google map api's for determining geolocation or Paypal API for paying for an order by increasing their engagement.

**Business ensigns-**It makes better data-driven decisions for the applications functionality via the analytics components such as usage patterns, device types and geographical locations.

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#### 3. TOOLS

#### 3.1 Node js

It is used to for the API integration. Node.js web application framework that provides a robust set of features for web and mobile applications APIs. It features convention over configuration concept. In this application we have used to write APIs.

#### 3.2 Postman

In our application, postman is used to handle HTTP send and receive requests, POST data to the server.

#### 4. METHODOLOGY

#### Step 1. An API integration developing

To integrate the API to you need to use an software development kit that includes a bunch of software development tools in one installable package. In this way, the developers can integrate the selected API.

#### Step 2: Create the application with the API providers

The developer should register in the API provider system because in development of API every call need a authentication.

## Step 3: Receive API key and authorization token

The developers gets an API key after the registration so that API provider can know the receiver and authentication token to verify the user.

### Step 4: Integrate the API framework for the application

Developers install the selected software development kit with APIs to an application and build environment using dependency managers such as Maven for androids.

#### Step 5: Use API request instances and methods

As app can use new features integrated via the API, the developers should implement the new functionality using the dependencies.

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#### 5. CONCLUSIONS

Third party API integration usage has given many advantages to the developers so by using the this you can enrich your application functionality without reinventing the wheel ,So an integration significantly reduces the cost and time of the application development process while making the application to stand out from the crowd and increase user engagement.

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