**Project Idea Topic:** ***Bill Tracker application***

Bill Tracker application is a hybrid mobile application works on both android and iOS devices. This app will keep the billing details provided by the user and the app will alert the user to keep the billing ready for hassle free billing before due date. This app will solve the problem users experiencing is, forgetting to pay the bill, missing payment dates and getting charged extra for missing payments and getting overcharged on some bills.

Bill Tracker web application let users enter all their monthly bills, what amount they owe, when the bill is due and what account user usually pay with. The Bill Tracker web application lets user easily change the amount of the bill when they know the new amount due. The amount of your upcoming bills is also displayed at the top of the page so user can easily tell how much he/she need to plan on having available to pay the bills. The Bill Tracker also lets user to view a history of each bill payment, so they can see how much amount for the bill payment has changed over time.

**A high-level overview of the features**

* User Login/ registration – this feature will let user to create their own account and login using the same credentials. This will let user profile safe and private.
* Manage Bills – this feature will let user to add bill details such as Bill name, amount, and due date. User can add, delete, edit, and share the bill items as necessary.
* Upcoming Bills – this feature will let user to view the upcoming bills that are due.
* Pending Bills – this feature will let user to view the unpaid bills from the list of bills that user added.
* Further improvements - Billing Management, Calendar based billing event notifications, data visualizations with the basic parameters based on types and frequency of bills.

Bill Tracker application is based on Ionic framework and utilizes Cordova Native plugins and custom Angular Services as required.

App Backend - final app backend is based on ExpressJS.

Base URL for Heroku deployed final app - <https://billtracker-ram.herokuapp.com>

Database Server URL: "mongodb+srv://ramkishor:ramkishor123@groceries.6exdy.mongodb.net/billtracker?retryWrites=true&w=majority"

mongodb models applied are-

var users = mongoose.model('users', {

email: String,

name: String,

password: String

});

var billingitems = mongoose.model('billingitems', {

userid: String,

name: String,

amount: Number,

due\_day: Number,

status:Number

});

var billstacks = mongoose.model('billstacks', {

userid: String,

billid:String,

name: String,

amount: Number,

due\_day: Number,

status: Number,

month: Number

}

);

**Service endpoints or RESTful API’s:**

Baseurl - <https://billtracker-ram.herokuapp.com>

example: <https://billtracker-ram.herokuapp.com/api/bill/add>

post-/api/bill/add

post-/api/user/create

post-/api/user/login

get-/api/bill/:id

get-/api/upcomingbill/:id

get-/api/pendingbill/:id

put-/api/bill/edit/:id

put-/api/bill/paid/:id

delete -/api/remove/:id

get-/api/stack