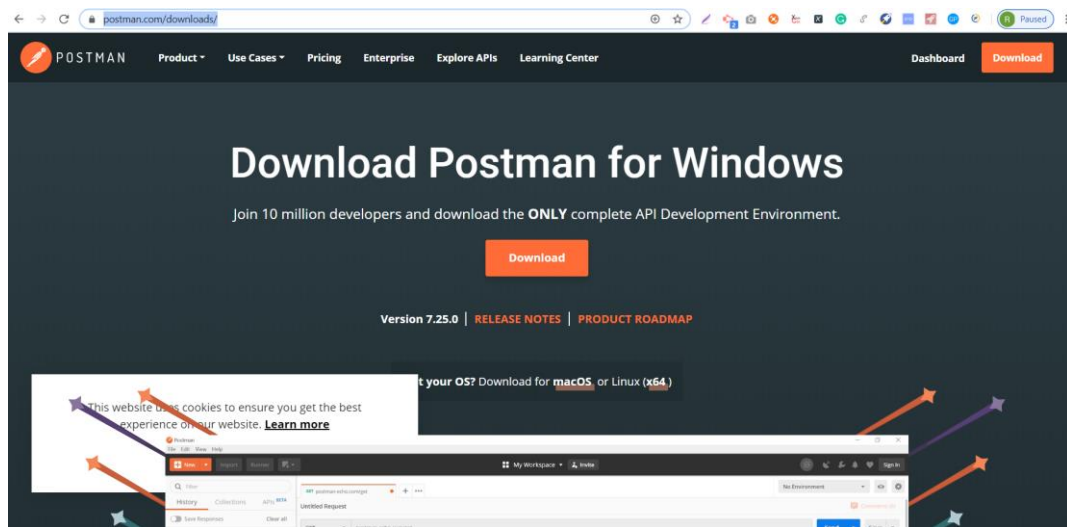


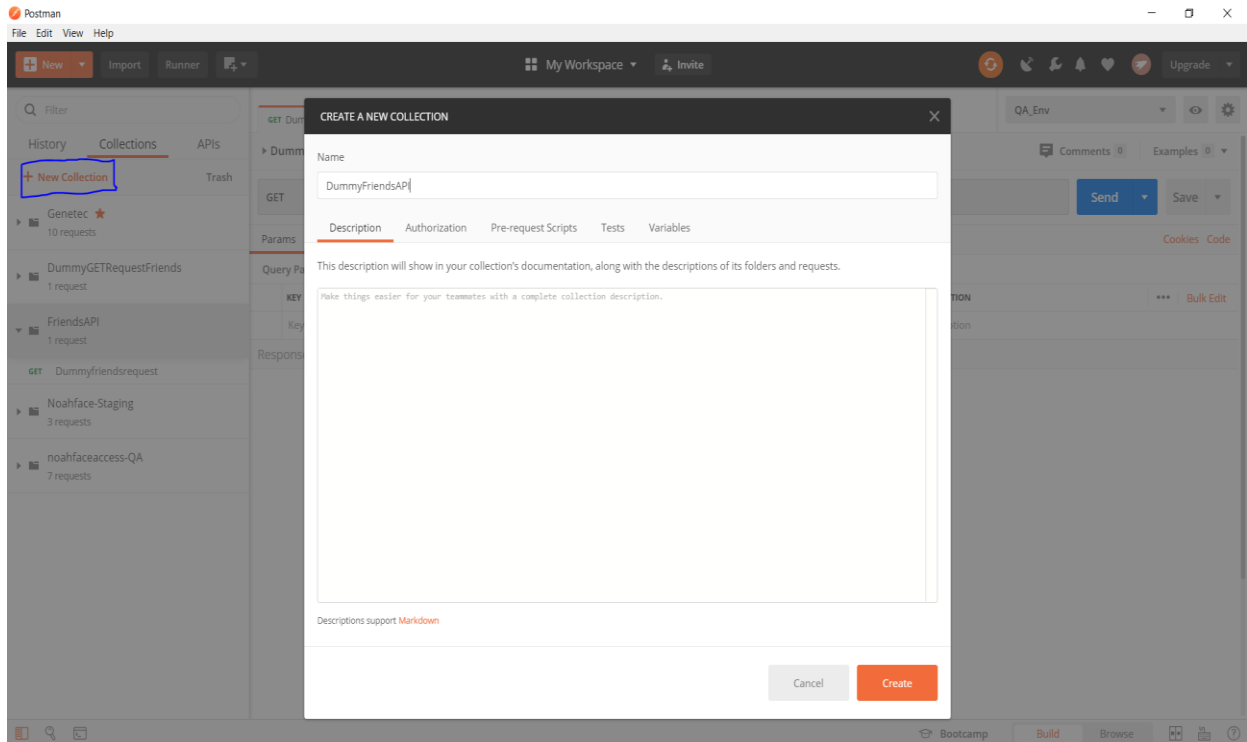
POSTMAN COLLECTION INTEGRATION & TRIGGER WITH JENKINS

1. Install the Postman app by going to the link:-

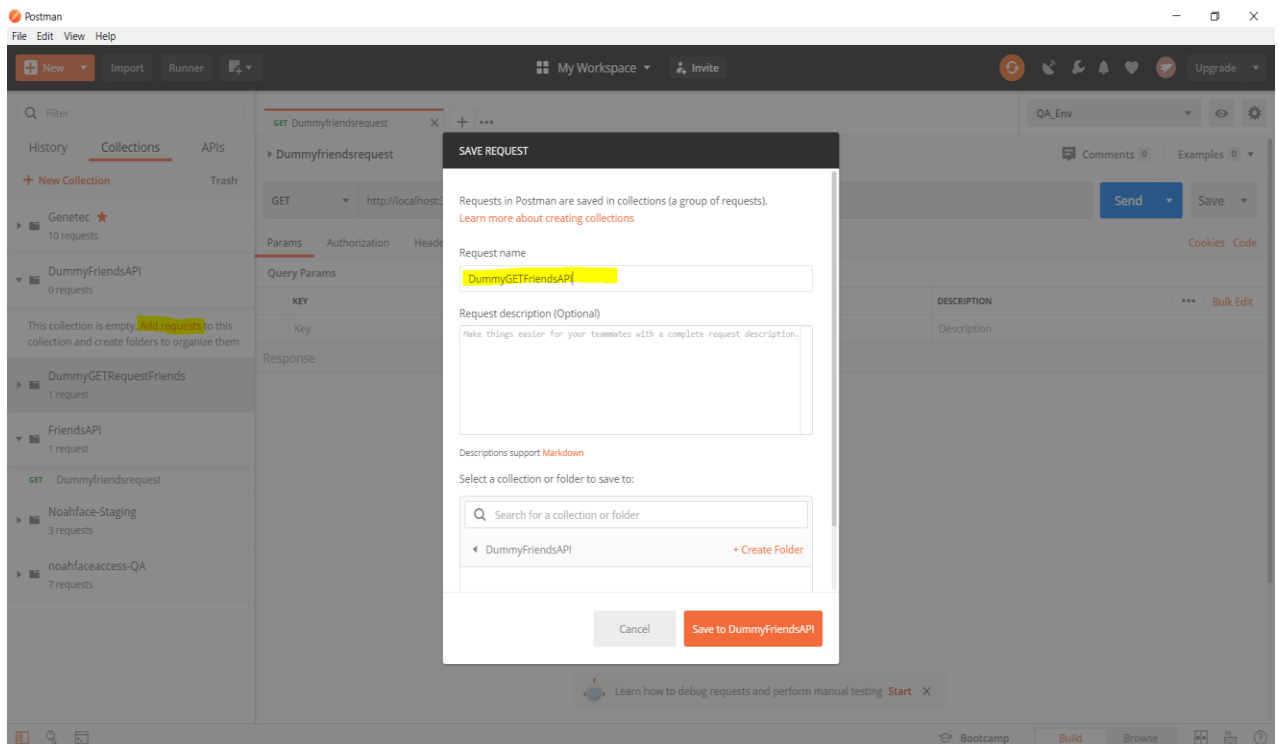
<https://www.postman.com/downloads/>



2. After downloading the postman, do signup.
3. Login with valid credentials username and password. Click on Create A New Collection and provide the collection name say DummyFriendsAPI and tap on Create button.



4. Once Collection is created, tap on Add requests and provide the Request name say DummyGETFriendsAPI in the dialog box and click on Save to DummyFriendsAPI.



5. Open the cmd and launch json server by passing db.json file to get dummy API's.

json-server --watch your db.json file

```
Command Prompt - json-server --watch C:\Users\hp\Desktop\db.json
Microsoft Windows [Version 10.0.17763.1217]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\hp>json-server --watch C:\Users\hp\Desktop\db.json

\{^_^}/ hi!

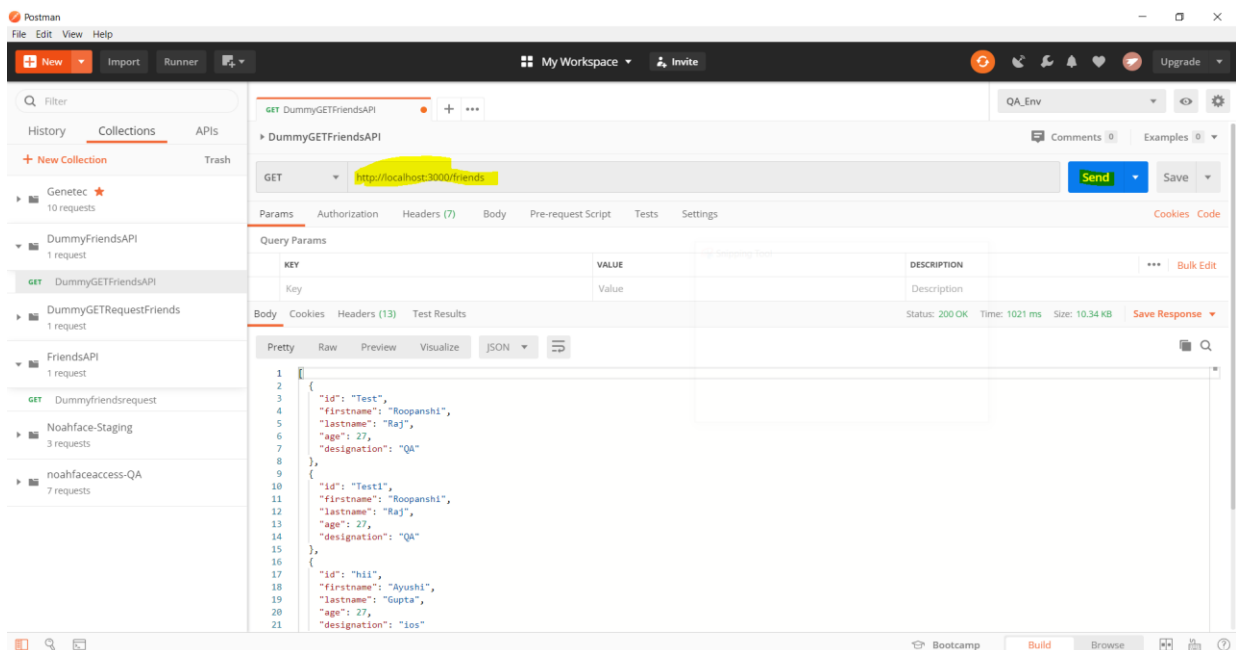
Loading C:\Users\hp\Desktop\db.json
Done

Resources
http://localhost:3000/friends
http://localhost:3000/comments
http://localhost:3000/profile

Home
http://localhost:3000

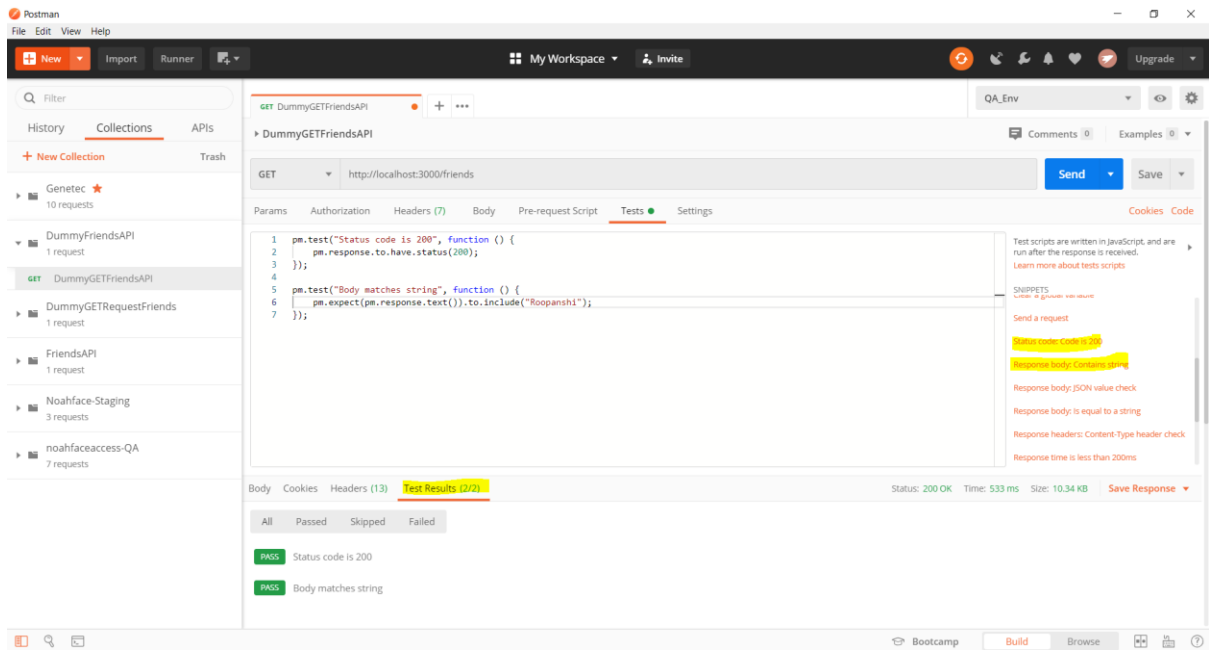
Type s + enter at any time to create a snapshot of the database
Watching...
```

6. Go to Postman and in the request URL enter your API say <http://localhost:3000/friends> and click on Send button.

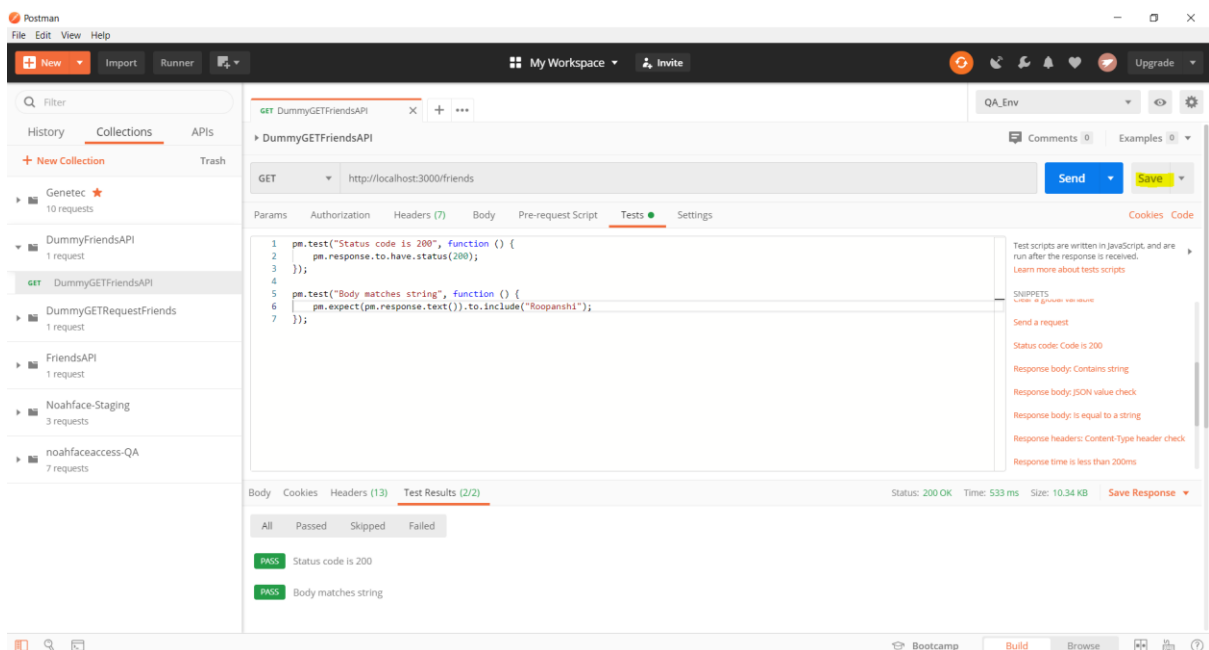


7. Navigate to the Tests section and select any pre-defined snippets, whatever you want to validate.

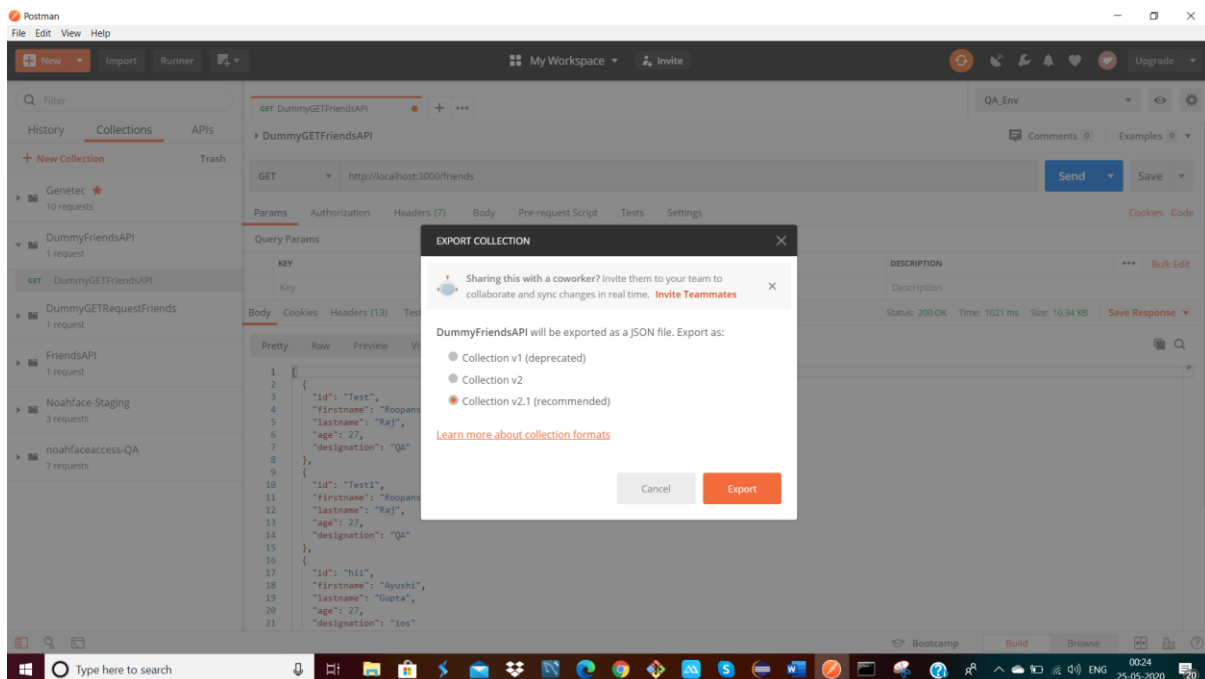
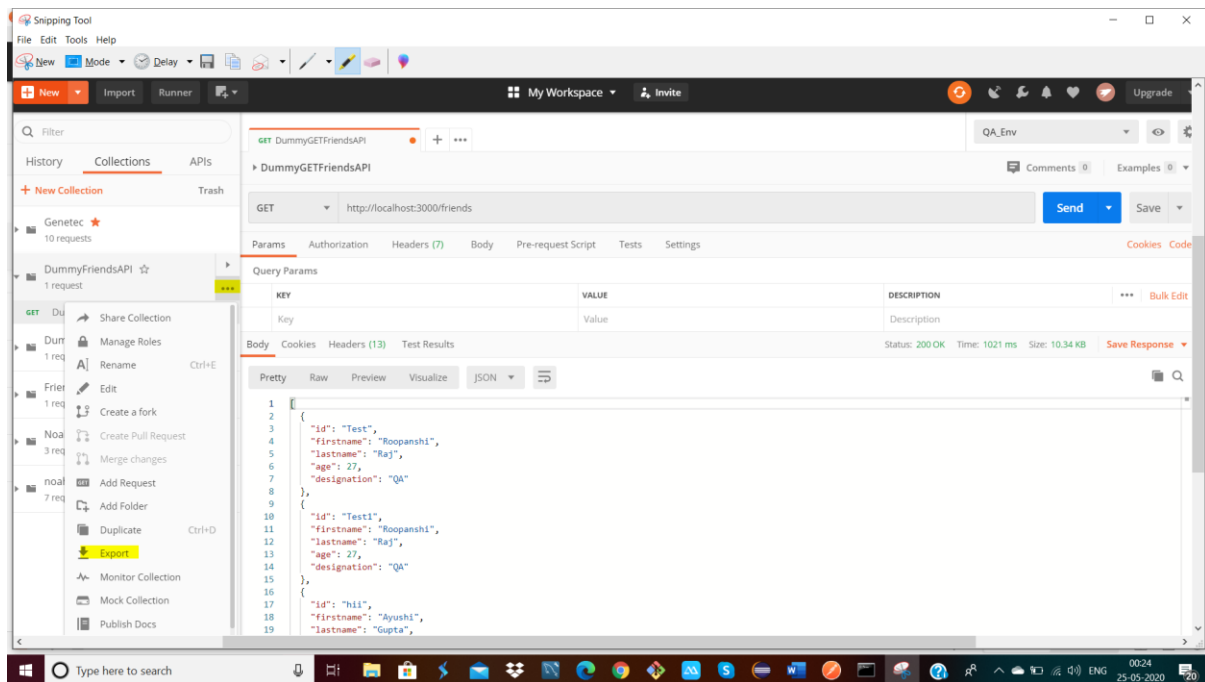
Eg. Here I validated the Status Code and Data in the Response Body.



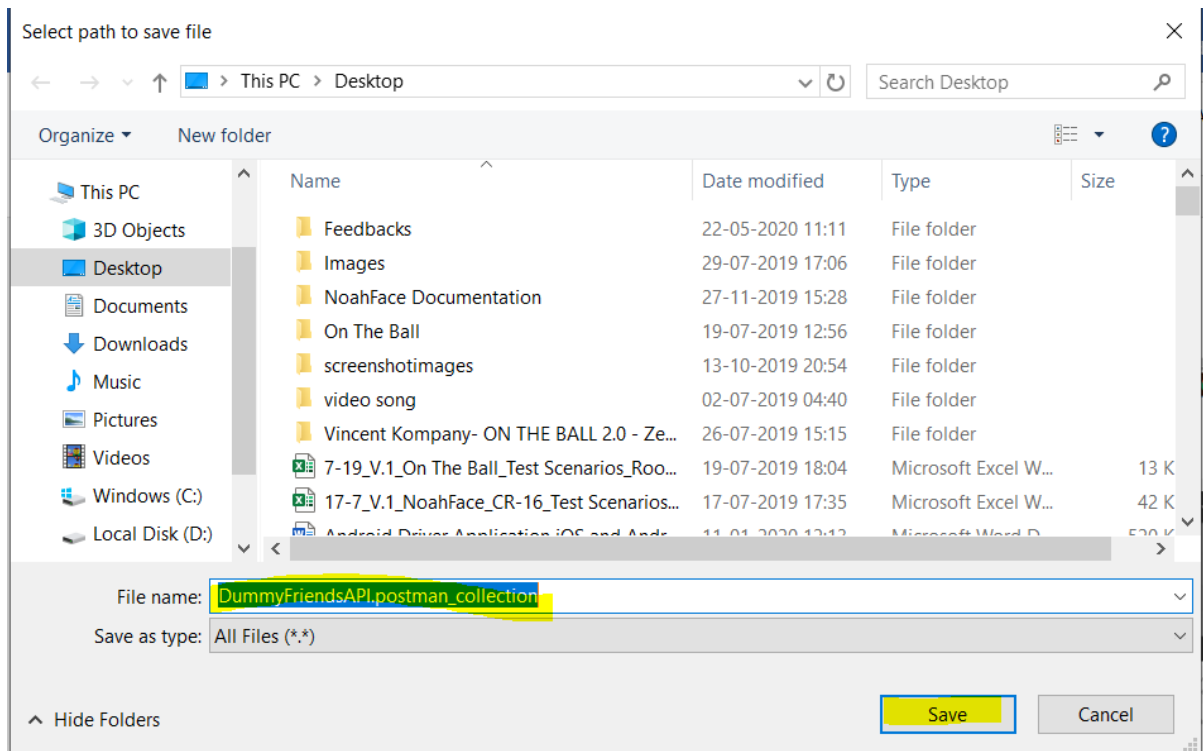
8. Now click on the Save button to save your postman collection.



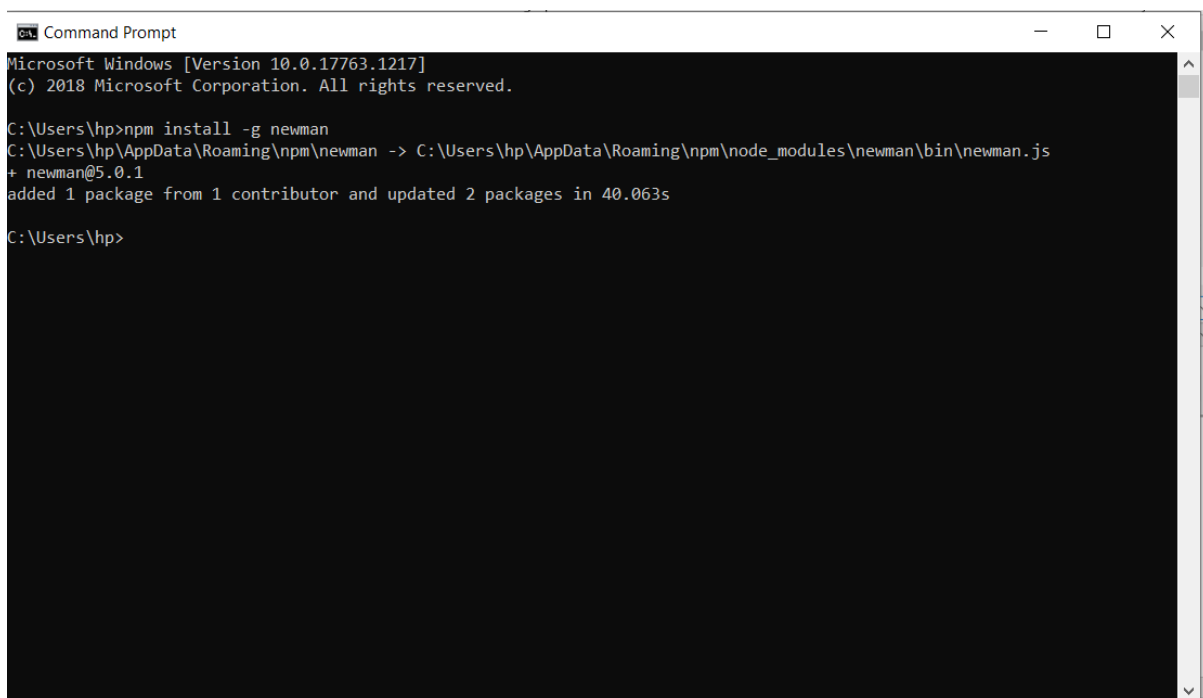
9. Next tap on 3 adjacent dots next to your collection and click on Export button.



10. Export the Postman Collection on your desktop.

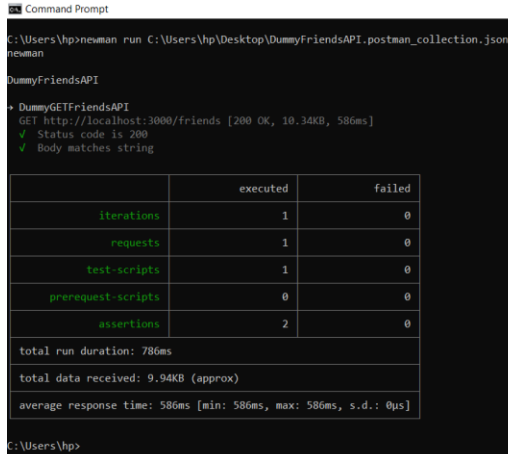


11. Launch cmd and now install newman by passing the command
npm install -g newman



12. Now run your postman collection through newman by passing your postman collection to newman.

newman run your postman collection.json (give the path of your collection exported from postman)



```
Command Prompt
C:\Users\hp>newman run C:\Users\hp\Desktop\DummyFriendsAPI.postman_collection.json
newman
DummyFriendsAPI
+ DummyGETFriendsAPI
  GET http://localhost:3000/friends [200 OK, 10.34KB, 586ms]
  ✓ Status code is 200
  ✓ Body matches string



|                                                                  | executed | failed |
|------------------------------------------------------------------|----------|--------|
| iterations                                                       | 1        | 0      |
| requests                                                         | 1        | 0      |
| test-scripts                                                     | 1        | 0      |
| prerequest-scripts                                               | 0        | 0      |
| assertions                                                       | 2        | 0      |
| total run duration: 786ms                                        |          |        |
| total data received: 9.94KB (approx)                             |          |        |
| average response time: 586ms [min: 586ms, max: 586ms, s.d.: 0µs] |          |        |


C:\Users\hp>
```

13. Now create a new text file and pass the postman collection to it.

newman run your postman collection.json

and save it in .bat format extension. File with the extension .bat format gets created on desktop.


```

Microsoft Windows [Version 10.0.17763.1217]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\hp>java -jar "C:\Users\hp\Downloads\jenkins (1).war"
Picked up JAVA_TOOL_OPTIONS: -Dfile.encoding=UTF-8
Running from C:\Users\hp\Downloads\jenkins (1).war
webroot: $user.home/.jenkins
May 25, 2020 1:12:56 AM org.eclipse.jetty.util.log.Log initialized
INFO: Logging initialized @2611ms to org.eclipse.jetty.util.log.JavaUtilLog
May 25, 2020 1:12:56 AM winstone.Logger logInternal
INFO: Beginning extraction from war file
B[3mMay 25, 2020 1:12:57 AM org.eclipse.jetty.server.handler.ContextHandler setContextPath
WARNING: Empty contextPath
B[0mMay 25, 2020 1:12:57 AM org.eclipse.jetty.server.Server doStart
INFO: jetty-9.4.2-zs-MQPSHQI; built: 2018-08-30T13:59:14.071z; git: 27288684755d94a92186989f695db2d7b21ebc51; jvm 1.8.0_221-b11
May 25, 2020 1:13:00 AM org.eclipse.jetty.webapp.StandardDescriptorProcessor visitServlet
INFO: NO JSP Support for /, did not find org.eclipse.jetty.jsp.JettyJspServlet
May 25, 2020 1:13:01 AM org.eclipse.jetty.session.DefaultSessionIdManager doStart
INFO: DefaultSessionIdManager workerName=node0
May 25, 2020 1:13:01 AM org.eclipse.jetty.session.DefaultSessionIdManager doStart
INFO: No SessionScavenger set, using defaults
May 25, 2020 1:13:01 AM org.eclipse.jetty.session.HouseKeeper startScavenging
INFO: node0 Scavenging every 600000ms
Jenkins home directory: C:\Users\hp\.jenkins found at: $user.home/.jenkins
May 25, 2020 1:13:01 AM org.eclipse.jetty.server.handler.ContextHandler doStart
INFO: Started w.@3aa078fd(Jenkins v2.164.3,/,file:///C:/Users/hp/.jenkins/war/,AVAILABLE)[C:\Users\hp\.jenkins\war]
May 25, 2020 1:13:01 AM org.eclipse.jetty.server.AbstractConnector doStart
INFO: Started ServerConnector@09ee81fc(HTTP/1.1,[http/1.1])[0.0.0.0:8080]
May 25, 2020 1:13:01 AM org.eclipse.jetty.server.Server doStart
INFO: Started @9773ms
May 25, 2020 1:13:03 AM winstone.Logger logInternal
INFO: Minstone Servlet Engine v4.0 running: controlPort=disabled
May 25, 2020 1:13:05 AM jenkins.InitReactorRunner$1 onAttained
INFO: Started initialization
May 25, 2020 1:13:13 AM jenkins.InitReactorRunner$1 onAttained
INFO: Listed all plugins
May 25, 2020 1:13:21 AM jenkins.InitReactorRunner$1 onAttained
INFO: Prepared all plugins
May 25, 2020 1:13:21 AM jenkins.InitReactorRunner$1 onAttained
INFO: Started all plugins
May 25, 2020 1:13:23 AM hudson.ExtensionFinder$GuiceFinder$FaultTolerantScope$1 error
INFO: Failed to instantiate optional component hudson.plugins.build_timeout.operations.AbortAndRestartOperation$DescriptorImpl; skipping
May 25, 2020 1:13:24 AM jenkins.InitReactorRunner$1 onAttained
INFO: Augmented all extensions
May 25, 2020 1:13:25 AM jenkins.InitReactorRunner$1 onAttained
INFO: Loaded all jobs
May 25, 2020 1:13:25 AM hudson.model.AsyncPeriodicWork$1 run
INFO: Started Download metadata
May 25, 2020 1:13:25 AM hudson.model.AsyncPeriodicWork$1 run
INFO: Finished Download metadata. 231 ms

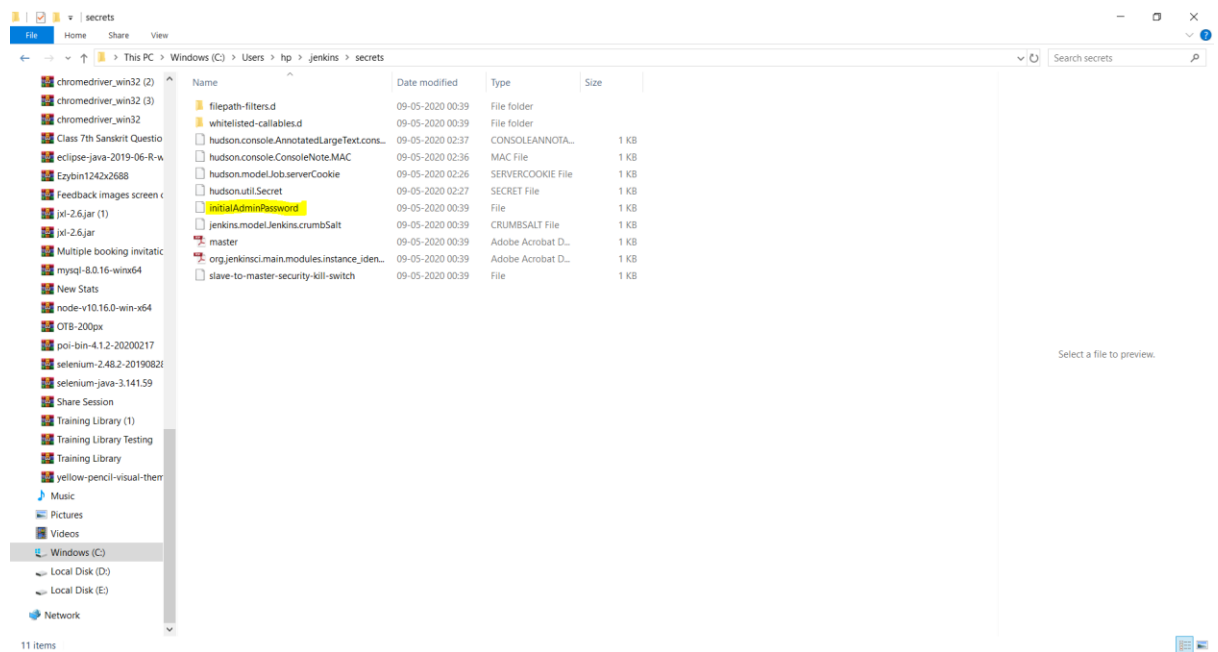
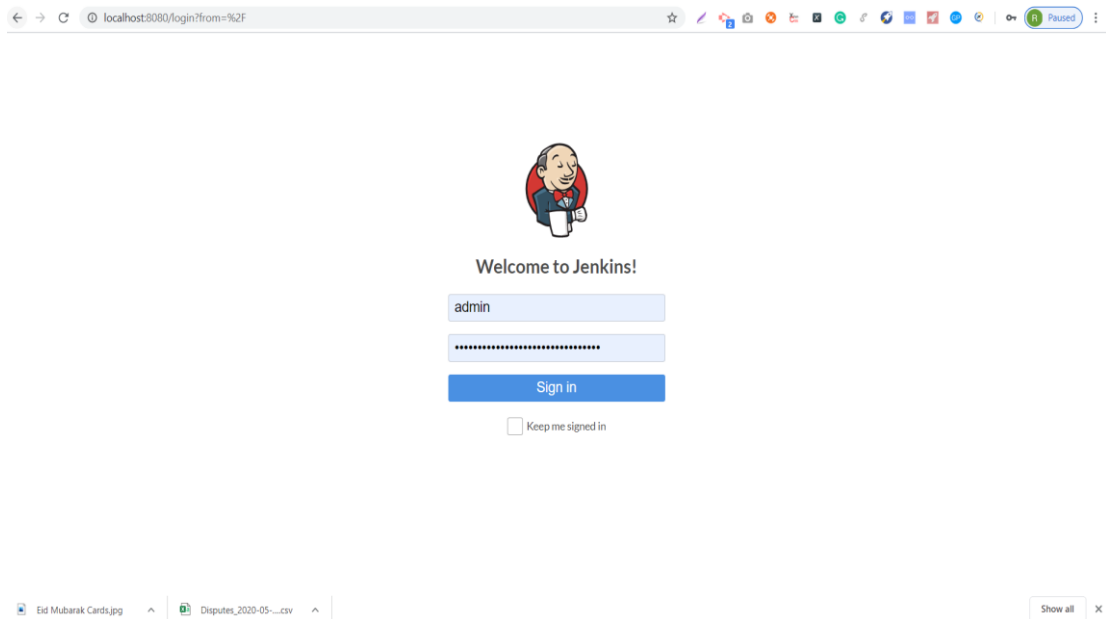
```

```

INFO: No SessionScavenger set, using defaults
May 25, 2020 1:13:01 AM org.eclipse.jetty.session.HouseKeeper startScavenging
INFO: node0 Scavenging every 600000ms
Jenkins home directory: C:\Users\hp\.jenkins found at: $user.home/.jenkins
May 25, 2020 1:13:01 AM org.eclipse.jetty.server.handler.ContextHandler doStart
INFO: Started w.@3aa078fd(Jenkins v2.164.3,/,file:///C:/Users/hp/.jenkins/war/,AVAILABLE)[C:\Users\hp\.jenkins\war]
May 25, 2020 1:13:01 AM org.eclipse.jetty.server.AbstractConnector doStart
INFO: Started ServerConnector@09ee81fc(HTTP/1.1,[http/1.1])[0.0.0.0:8080]
May 25, 2020 1:13:01 AM org.eclipse.jetty.server.Server doStart
INFO: Started @9773ms
May 25, 2020 1:13:03 AM winstone.Logger logInternal
INFO: Minstone Servlet Engine v4.0 running: controlPort=disabled
May 25, 2020 1:13:05 AM jenkins.InitReactorRunner$1 onAttained
INFO: Started initialization
May 25, 2020 1:13:13 AM jenkins.InitReactorRunner$1 onAttained
INFO: Listed all plugins
May 25, 2020 1:13:21 AM jenkins.InitReactorRunner$1 onAttained
INFO: Prepared all plugins
May 25, 2020 1:13:21 AM jenkins.InitReactorRunner$1 onAttained
INFO: Started all plugins
May 25, 2020 1:13:23 AM hudson.ExtensionFinder$GuiceFinder$FaultTolerantScope$1 error
INFO: Failed to instantiate optional component hudson.plugins.build_timeout.operations.AbortAndRestartOperation$DescriptorImpl; skipping
May 25, 2020 1:13:24 AM jenkins.InitReactorRunner$1 onAttained
INFO: Augmented all extensions
May 25, 2020 1:13:25 AM jenkins.InitReactorRunner$1 onAttained
INFO: Loaded all jobs
May 25, 2020 1:13:25 AM hudson.model.AsyncPeriodicWork$1 run
INFO: Started Download metadata
May 25, 2020 1:13:25 AM hudson.model.AsyncPeriodicWork$1 run
INFO: Finished Download metadata. 231 ms
May 25, 2020 1:13:26 AM org.springframework.context.support.AbstractApplicationContext prepareRefresh
INFO: Refreshing org.springframework.web.context.support.StaticWebApplicationContext@1b94744e: display name [Root WebApplicationContext]; startup date [Mon May 25 01:13:26 IST 2020]; root of context hierarchy
May 25, 2020 1:13:26 AM org.springframework.context.support.AbstractApplicationContext obtainFreshBeanFactory
INFO: Bean factory for application context [org.springframework.web.context.support.StaticWebApplicationContext@1b94744e]: org.springframework.beans.factory.support.DefaultListableBeanFactory@500b5061
May 25, 2020 1:13:26 AM org.springframework.beans.factory.support.DefaultListableBeanFactory preInstantiateSingletons
INFO: Pre-instantiating singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@500b5061: defining beans [authenticationManager]; root of factory hierarchy
May 25, 2020 1:13:26 AM org.springframework.context.support.AbstractApplicationContext prepareRefresh
INFO: Refreshing org.springframework.web.context.support.StaticWebApplicationContext@2cf279bc: display name [Root WebApplicationContext]; startup date [Mon May 25 01:13:26 IST 2020]; root of context hierarchy
May 25, 2020 1:13:26 AM org.springframework.context.support.AbstractApplicationContext obtainFreshBeanFactory
INFO: Bean factory for application context [org.springframework.web.context.support.StaticWebApplicationContext@2cf279bc]: org.springframework.beans.factory.support.DefaultListableBeanFactory@457f05ac
May 25, 2020 1:13:26 AM org.springframework.beans.factory.support.DefaultListableBeanFactory preInstantiateSingletons
INFO: Pre-instantiating singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@457f05ac: defining beans [filter,legacy]; root of factory hierarchy
May 25, 2020 1:13:26 AM jenkins.InitReactorRunner$1 onAttained
INFO: Completed initialization
May 25, 2020 1:13:27 AM hudson.WebAppMain$3 run
INFO: Jenkins is fully up and running

```

15. Now open the Jenkins on localhost:8080. Enter the username as admin and get the password by going to .jenkins>secrets>initialAdminPassword. Tap on SignIn.



16. Next click on New Item and enter the Item Name as say DummyFriendsAPI and select the FreeStyle project and click on OK.

localhost:8080

Jenkins

admin | log out

ENABLE AUTO REFRESH

+ add description

All +

S	W	Name	Last Success	Last Failure	Last Duration
		GitJenkinsIntegration	15 days - #2	N/A	1 min 34 sec
		Runnewmanncollection	1 day 20 hr - #20	1 day 21 hr - #11	2.9 sec
		TDDAPIFrameworkIntegration	21 hr - #2	21 hr - #1	1 min 43 sec

Icon: S M L

Legend RSS for all RSS for failures RSS for just latest builds

Build Queue

No builds in the queue.

Build Executor Status

1 Idle
2 Idle

Page generated: May 25, 2020 1:31:21 AM IST [REST API](#) Jenkins ver. 2.164.3

Eid Mubarak Cards.jpg Disputes_2020-05-...csv Show all X

localhost:8080/view/all/newJob

Jenkins

admin | log out

Enter an item name

DummyFriendsAPI

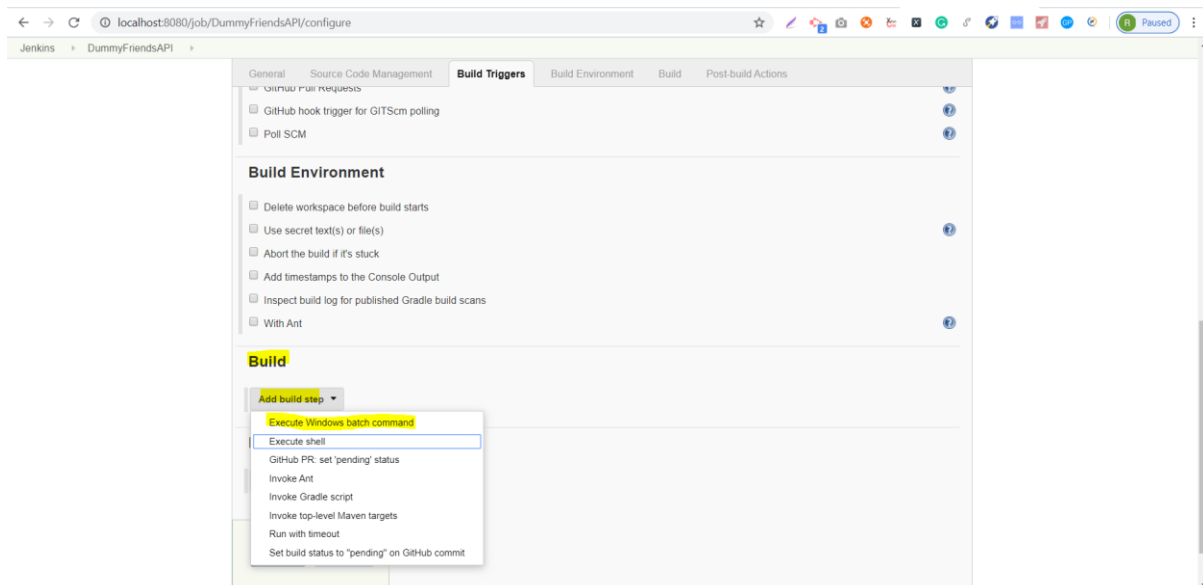
Required field

- Freestyle project**
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
- Maven project**
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
- Pipeline**
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
- Multi-configuration project**
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.
- Folder**
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.
- GitHub Organization**
Scans a GitHub organization (or user account) for all repositories matching some defined markers.
- Multibranch Pipeline**
Creates a set of Pipeline scripts according to detected branches in one SCM repository.

OK

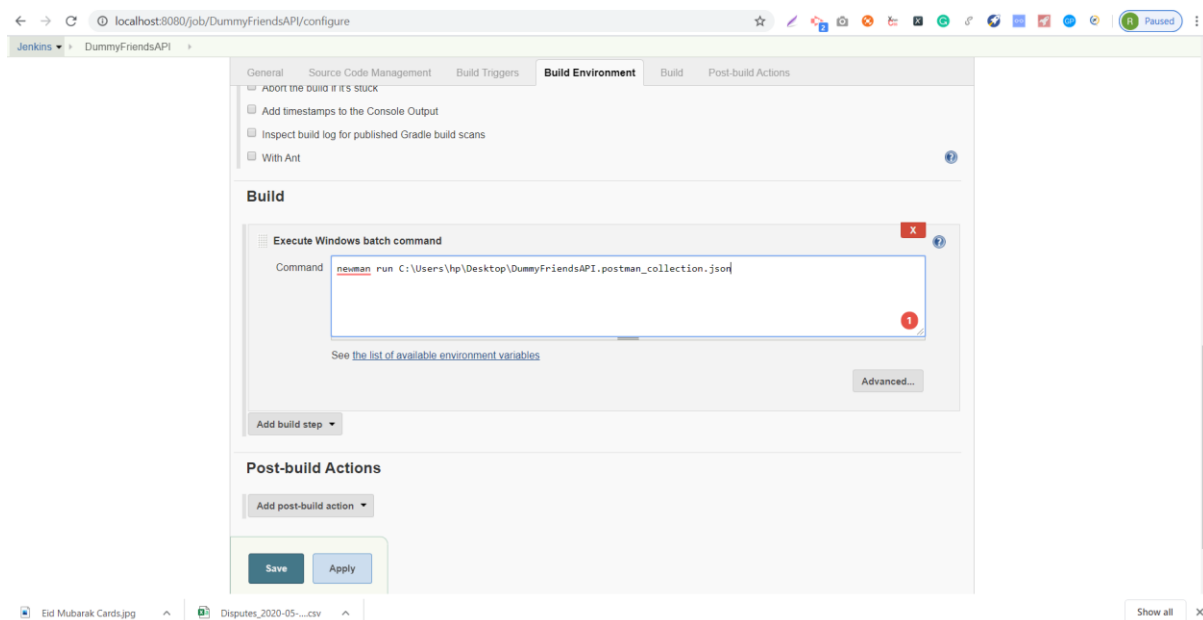
Eid Mubarak Cards.jpg Disputes_2020-05-...csv Show all X

17. Scroll down and under Build click on the Add build step dropdown and select Executable Windows Batch Command.



18. Now enter the command `newman run` and pass your postman collection and click on Save button.

`newman run your postman collection.json` (path and name of your postman collection)



19. Tap on Back to Dashboard and click on the icon at the right side of your project to schedule your build.

localhost:8080/job/DummyFriendsAPI/

Jenkins

2

admin | log out

Back to Dashboard

Status

Changes

Workspace

Build Now

Delete Project

Configure

Rename

Project DummyFriendsAPI

add description

Disable Project

Workspace

Recent Changes

Permalinks

Build History

find

RSS for all

RSS for failures

Page generated: May 25, 2020 1:43:03 AM IST

REST API

Jenkins ver. 2.164.3

Eid Mubarak Cards.jpg

Disputes_2020-05-....csv

Show all

localhost:8080

Jenkins

2

admin | log out

New Item

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Lockable Resources

Credentials

New View

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

Build History

S	W	Name	Last Success	Last Failure	Last Duration
		DummyFriendsAPI	N/A	N/A	N/A
		GitJenkinsIntegration	15 days - #2	N/A	1 min 34 sec
		Runnewmanncollection	1 day 20 hr - #20	1 day 22 hr - #11	2.9 sec
		TDDAPIFrameworkIntegration	21 hr - #2	22 hr - #1	1 min 43 sec

Icon: S M L

Legend

RSS for all

RSS for failures

RSS for just latest builds

Page generated: May 25, 2020 1:44:22 AM IST

REST API

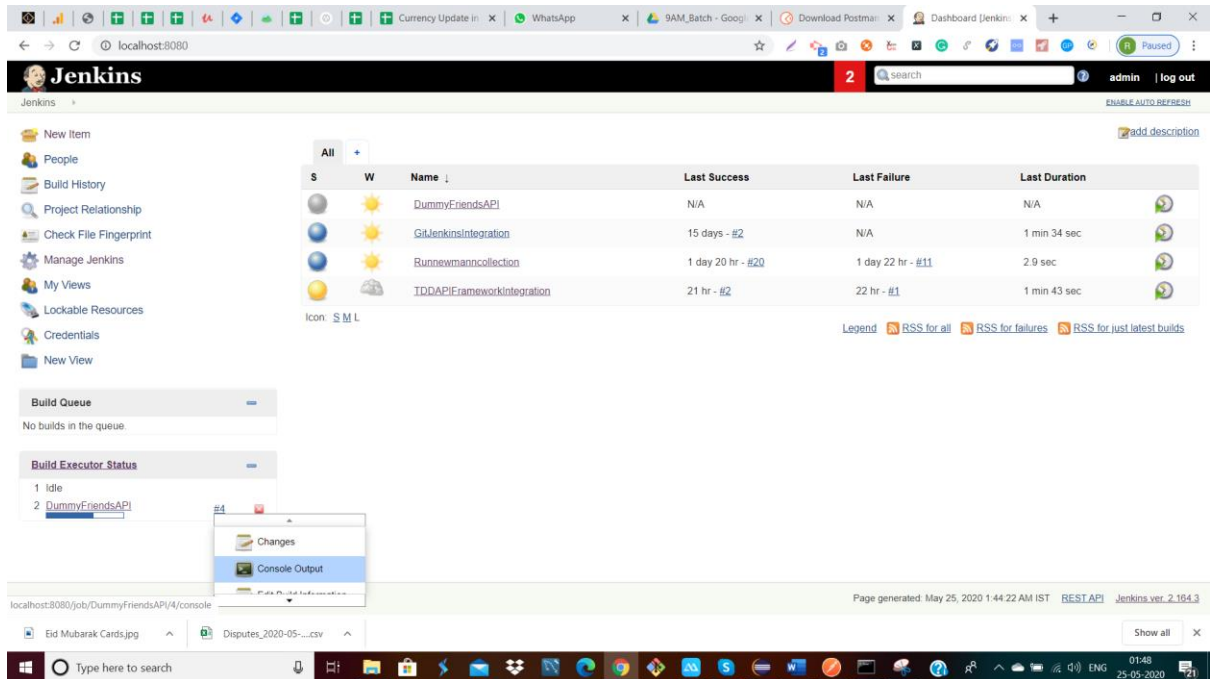
Jenkins ver. 2.164.3

Eid Mubarak Cards.jpg

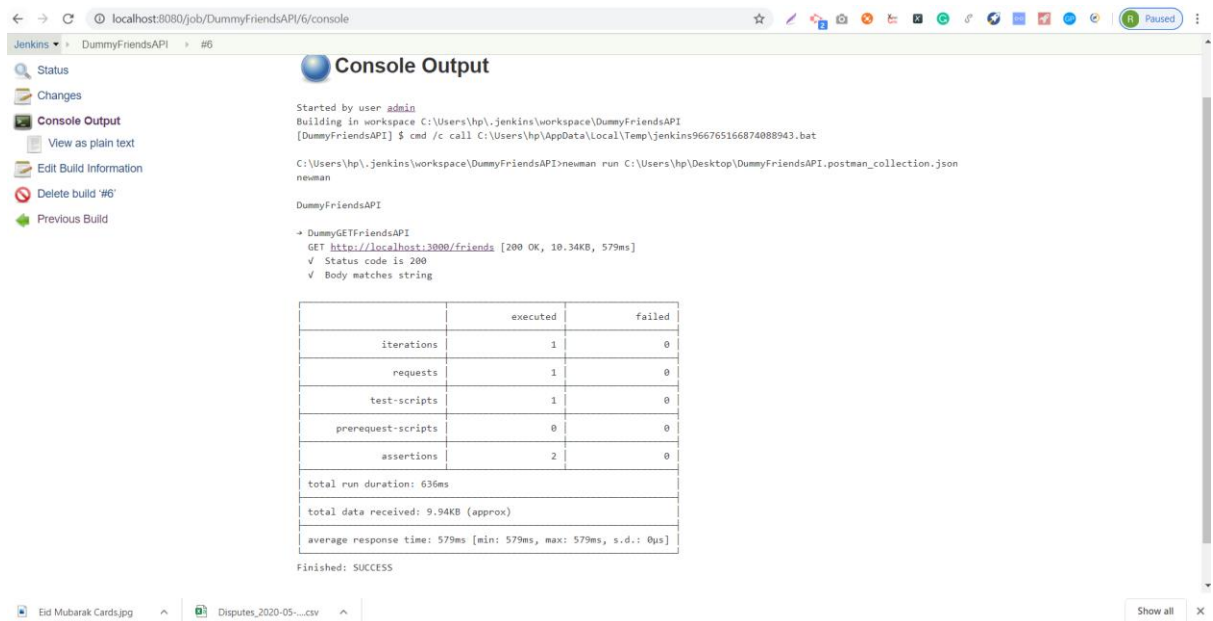
Disputes_2020-05-....csv

Show all

20. Once build starts triggering click on Console Output to view it.



21. Verify the desired Output gets generated.



Author:- Roopanshi Raj