

In this tutorial lets understand the overview and installation process for the cutting edge technologies in use in today's IT world.

1. GitHub
2. ZenHub
3. Creately
4. JetBrains WebStorm
5. Brackets IDE
6. Android Studio
7. Node.js
8. Ionic

1) GitHub:

GitHub is a learn and share platform where we can work together to build software. It is a web-based hosting service for version control and source code management.

A) Introduction To GitHub

Founded: 2008

Users: 31 million+

Written in: Ruby

Latest News: From January 2019 GitHub is offering unlimited private repository to all the plans including free accounts.

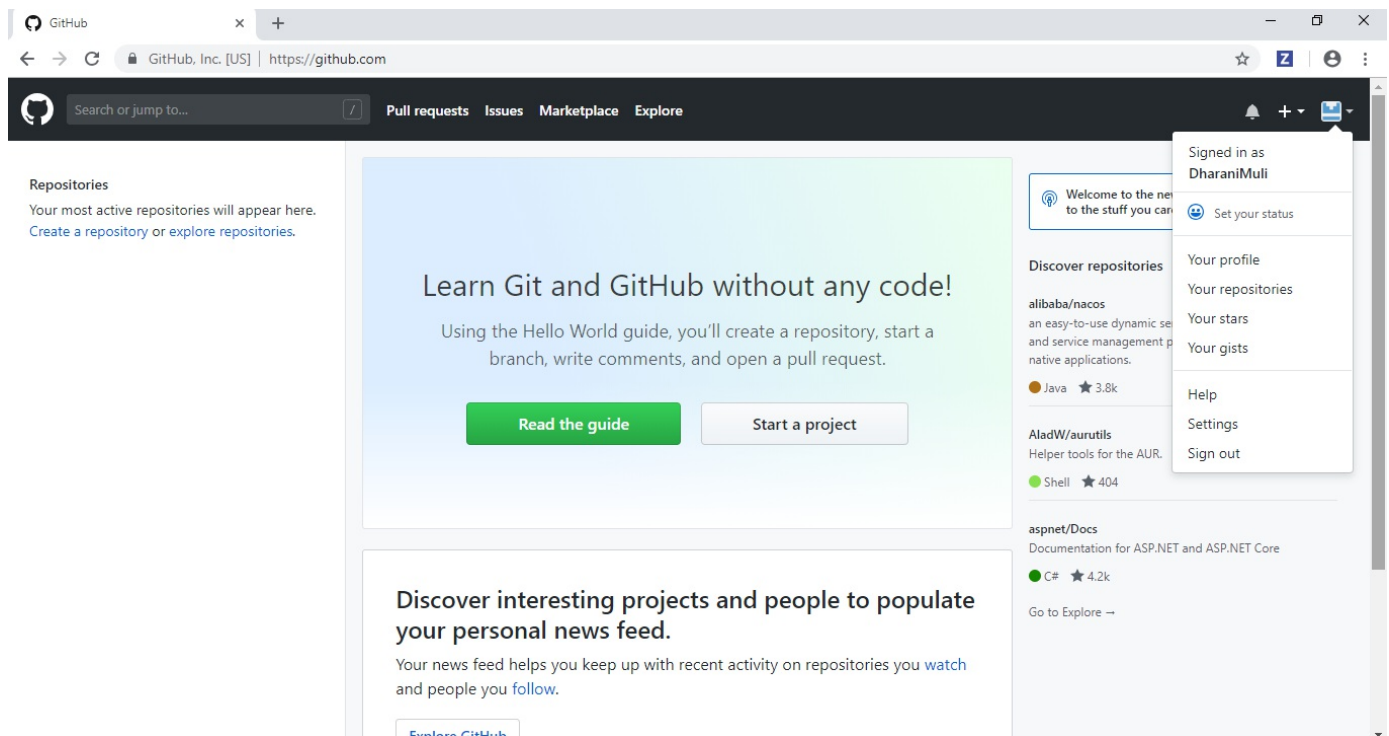
B) GitHub Features:

- Source Code management
- Clone
- Issue Tracking
- Wikis
- Email Notifications
- Project Management
- Integration
- Team Management
- Social Coding
- Documentation
- Code Hosting

C) Sign Up for GitHub

Steps:

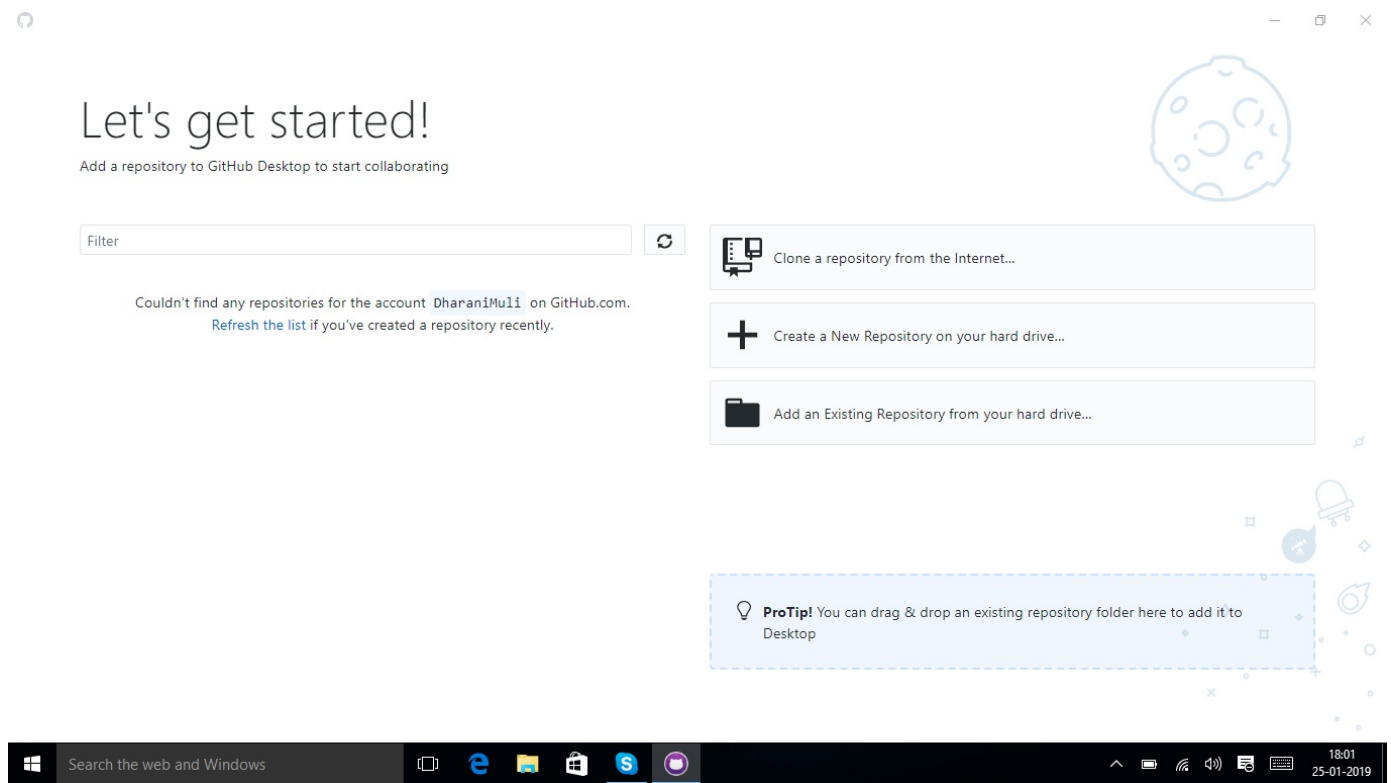
1. Create a GitHub account by providing required information
2. Verify Email address given while creating an account



D) Steps to Installation of GitHub - Desktop Version

1. Download GitHub Desktop version based on your OS
2. Install and Run GitHub

Note: You should have 64-bit operating system to run GitHub desktop version



2) ZenHub:

ZenHub is an Agile Project Management service integrated with GitHub to provide Robust project management and development of better software projects.

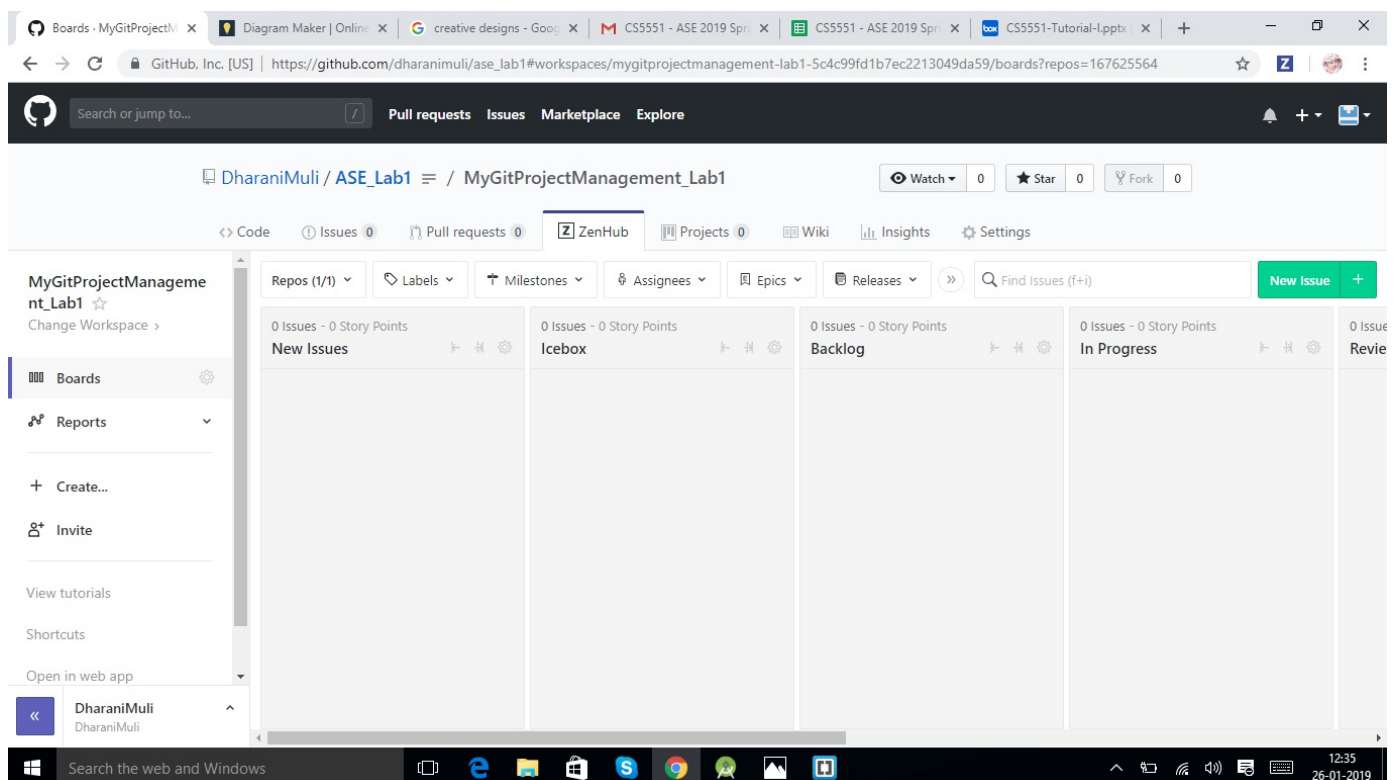
A) ZenHub Features:

- Multi Repo Tasks Boards
- Create and Manage Product Backlogs
- Create and Manage ToDo Lists
- Report Management
- Time Estimations
- Kanban Boards
- Create and Manage Issues

B) Installation Steps:

1. Go to ZenHub website and add “Zenhub to GitHub” extension to any of your browser
2. Once it is done you can view extension added to your browser (on the top right)
3. Click on that icon and log in using GitHub credentials
4. Once you login grants permission for ZenHub to access your GitHub data.

On successful completion of these steps, you can view ZenHub as a separate tab under your GitHub repository.



3) Creately:

Creately is a powerful online/desktop/mobile application used to create

diagrams, flows, and mockups in a very fast and efficient manner.

Trusted Users: NASA, eBay, Paypal, National Geographic and Amazon

Awards and Accolades:

- Creately was ranked in top 10 web apps in Asia
- Creately covered twice in German language magazine in 2010 and 2009.
- Creately was nominated as one of the best RIA applications in the world by users and readers of O'Reilly RIA website.

A) Creately Features:

- Easy to draw
- Smart Shapes and connectors
- Real-time Collaboration with the team
- Thousands of high-quality templates such as Flowcharts and workflows, Wireframes and UI Mockups, Use Case Diagrams, gantt Charts, Infographics, Venn Diagrams, UML Diagrams, Business process models, mindmaps e.t.c
- Works on online, Mobile and Desktop

B) Signup Creately:

Steps:

1. Search for create website on the browser
2. Click on Sign up
3. Fill all the required details

4. Verify email id
5. Login and start working with Creately

The screenshot displays the Creately user profile interface. The browser address bar shows the URL <https://creately.com/account/user/profile>. The page has a dark blue header with the Creately logo and navigation links: Features, Products, Examples, Pricing, and a 'Go to App' button. A sidebar on the left contains links for My Profile, My Team, My Account, and My Billing. The main content area is titled 'User Profile' and is divided into two sections. The 'Basic Info' section contains form fields for First Name (Dharani), Last Name (Muli), Date of Birth, Gender (Female), Phone, Country (India), Organization, Industry (Select your industry), and Job Title (Select your job category). A profile picture placeholder is shown with 'Change' and 'Remove' buttons. An 'Update' button is located at the bottom right of the 'Basic Info' section. The 'Account Email' section below shows the current email as dm6f9@mail.umkc.edu. The Windows taskbar at the bottom shows the search bar and various application icons.

4) JetBrains Webstorm:

It is a cross-platform IDE for Web, Server, Mobile, Desktop applications development.

A) Introduction :

WebStorm is a cross-platform IDE primarily for web, JavaScript and TypeScript development.

Founded: 2000

Number of Employees: 700 +

Awards: Inforworld magazine "Technology of the Year Awards" in 2011 and 2015

B) WebStorm Features:

- Intelligent coding assistance
- Debugging
- Testing
- Tracing and profiling
- Integration with other tools

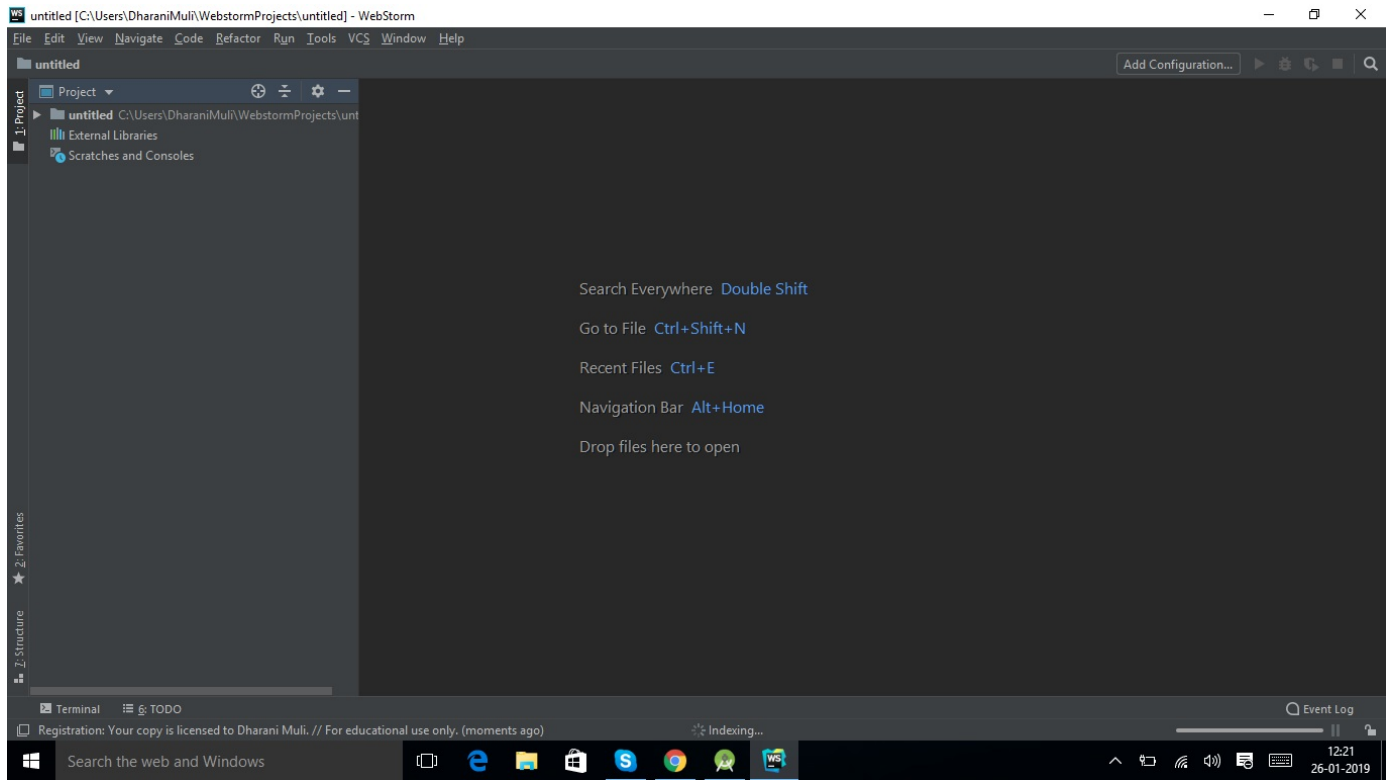
Refer the link for more information:

<https://www.jetbrains.com/webstorm/>

C) Installation Steps:

1. Go to JetBrains WebStorm website and download the .exe file
2. Double click on the .exe file (from downloads) then IDE will start installing
3. Once the installation is done we should activate WebStorm license by providing credentials.
4. Once we log in, we are ready to use the IDE

Tip!! Use student account to log in to JetBrains which provides a 1-year subscription for free.



5) Brackets IDE:

It is cross-platform source code editor for web development created by Adobe Systems. It is free and open source licensed IDE which is currently maintained on GitHub by Adobe.

A) Introduction

Release: 2014

Written in: HTML, CSS and JavaScript

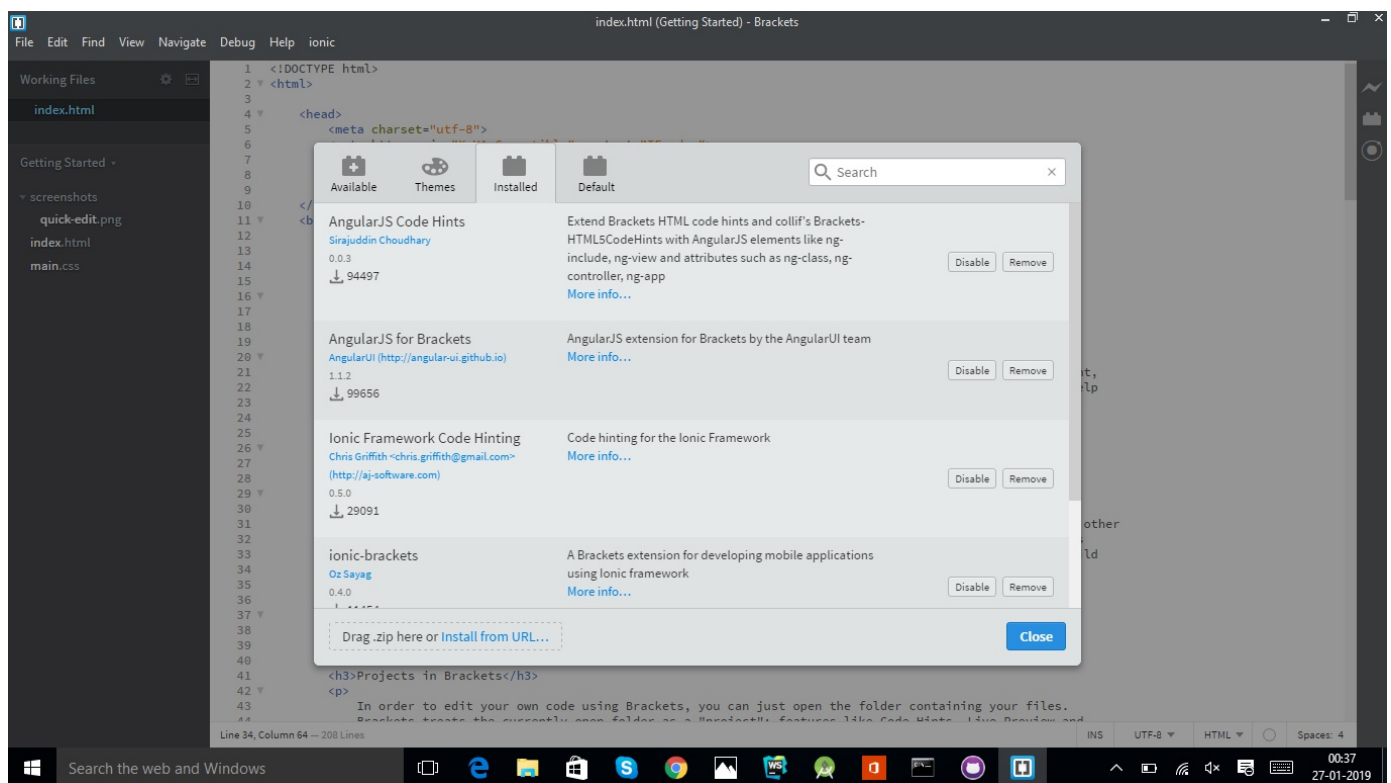
B) Installation Steps:

1. Go to Brackets IDE website and download .exe file for installation

2. Double click on the .exe file (from downloads) then IDE will start installing
3. Once the installation is done, we are ready to use Brackets IDE

C) Other extensions to be added to Brackets for better development experience:

1. AngularJS Code Hints
2. Angular JS for Brackets
3. ionic-brackets
4. ionic Framework Code Hinting
5. Simple JS Code Hint



6) Android Studio:

Android Studio is a tool helps us to build Android apps

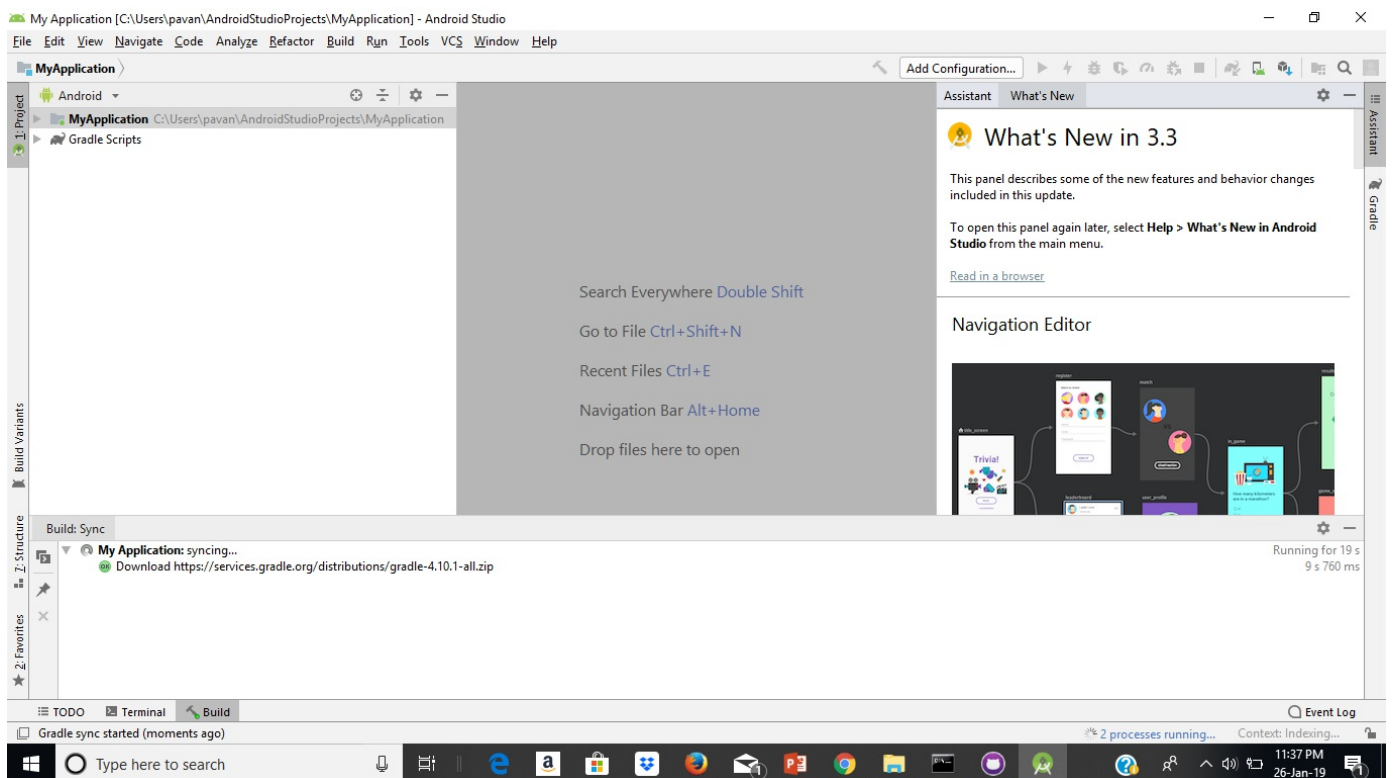
A) Introduction:

Released: 2013

Written in: Java, Kotlin and C++

B) Installation Steps:

1. Go to "<https://developer.android.com/studio/>" and download "Android Studio"
2. Install the downloaded .exe file
3. Once installation is done, we are ready to use



7) Node.js:

Node.js is an open-source JavaScript run time environment.

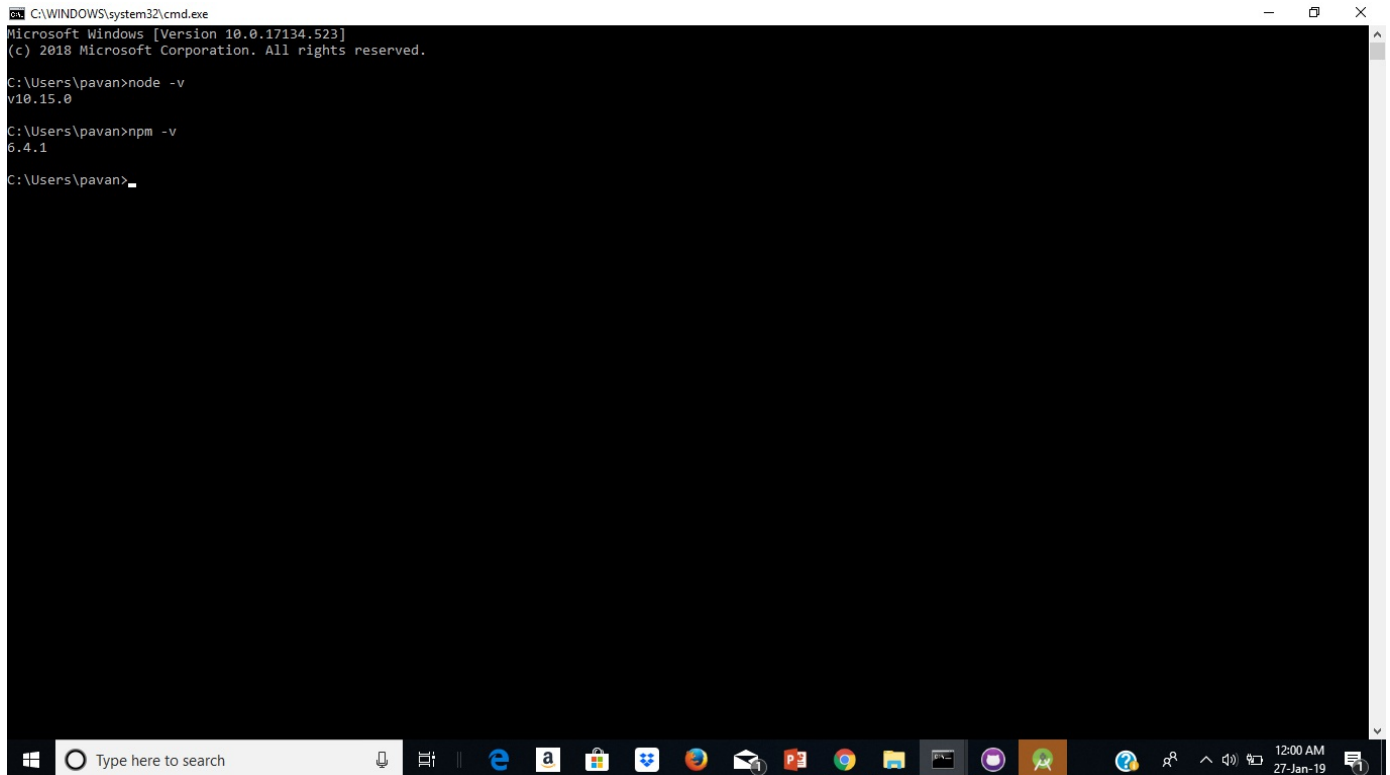
A) Introduction

Release : 2009

Written in: C, C++, JavaScript

B) Installation Steps:

1. Go To node.js website and download “node.js”
2. Start installing .exe file of node.js
3. Once the installation is done we are ready to use node.js



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.17134.523]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\pavan>node -v
v10.15.0

C:\Users\pavan>npm -v
6.4.1

C:\Users\pavan>
```

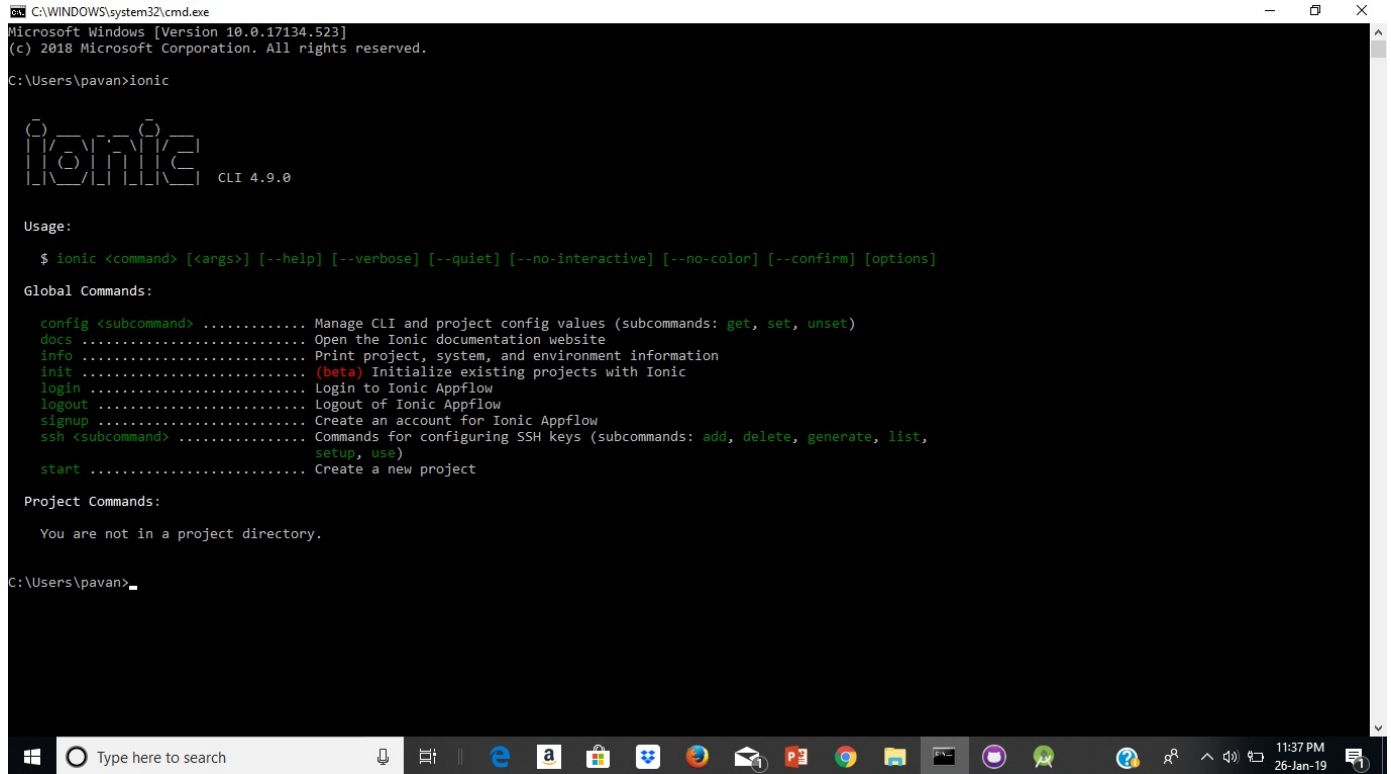
The screenshot shows a Windows Command Prompt window with the title bar 'C:\WINDOWS\system32\cmd.exe'. The window content displays the output of two commands: 'node -v' which returns 'v10.15.0', and 'npm -v' which returns '6.4.1'. The prompt is currently at 'C:\Users\pavan>'. The Windows taskbar is visible at the bottom, showing the search bar and various application icons. The system clock in the bottom right corner indicates '12:00 AM 27-Jan-19'.

8) Ionic :

Ionic is an open source software development kit for hybrid mobile app development.

Installation Steps:

1. Enter the following command in command prompt
`npm install -g Cordova ionic`
2. The required packages will be downloaded automatically.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.17134.523]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\pavan>ionic

Ionic
CLI 4.9.0

Usage:
  $ ionic <command> [<args>] [--help] [--verbose] [--quiet] [--no-interactive] [--no-color] [--confirm] [options]

Global Commands:
  config <subcommand> ..... Manage CLI and project config values (subcommands: get, set, unset)
  docs ..... Open the Ionic documentation website
  info ..... Print project, system, and environment information
  init ..... (beta) Initialize existing projects with Ionic
  login ..... Login to Ionic Appflow
  logout ..... Logout of Ionic Appflow
  signup ..... Create an account for Ionic Appflow
  ssh <subcommand> ..... Commands for configuring SSH keys (subcommands: add, delete, generate, list,
                        setup, use)
  start ..... Create a new project

Project Commands:
  You are not in a project directory.

C:\Users\pavan>
```