

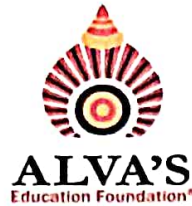
ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka



Department of Computer Science and Design

Certification Course

On

“Angular JS and Node JS - Hands-On Session”

**Academic Year
2023-24**



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Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka

Department of Computer Science and Design

Approval Letter

Date : 4/12/2023

From :
The HoD

To,
The Principal
AIET , MIjar

Respected Sir ,

Subject : Organizing Certification Programme on “ Angular JS and Node JS”

With reference to the above subject I would like to bring to your kind notice that the Department is planning to conduct five days hands-on session certification programme on “ **Angular JS and Node JS**” from **18th to 22nd Dec 2023** at our premier institution. The resource person for this certification course is **Mrs. Shwetha R J , Associate Developer , Globalpayex Pvt Ltd , Mangalore**. The participants for this certification course are students of 5th semester.

Kindly consider our request and do the needful.

Thanking You Sir ,

(Dr.Peter Fernandes)

PRINCIPAL

Alva's Institute of Engg. & Technology,
MIJAR, MOODBIDRI - 574 225, D.K.



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Department of Computer Science and Design

Invitation Letter

Date : 7/12/2023

To,

Mrs. Shwetha R J ,

Associate Developer ,

Globalpayex Pvt Ltd , Mangalore

Dear Mrs.Shwetha R J

Subject : Invitation Letter for conduction of Five Days Certification Programme.

With reference to the above cited subject , I am very much pleased to invite you as a resource person for conduction of Five days Certification Programme on "**Angular JS and Node JS**" from 18th to 22nd Dec 2023 at our premier institution. The participants for this course are students of 5th Semester.

In this regard I request you to accept our invitation letter and enlighten the students with your knowledge in the field of Angular JS and Node JS used in developing client-side web applications and server-side applications.

Thanking You Madam,

Coordinator

Dr.Shivaprasad B J

Sr.Asst Professor

HoD

Mr.Jayantkumar A Rathod

Associate Professor & Head

H.O.D

Dept. of Computer Science and Design

Alva's Institute of Engg. & Technology

Mijar, Moodubidire - 574 225



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Department of Computer Science and Design

CIRCULAR

Date : 11/12/2023

It is hereby informed to all the students of 5th Semester that Department is organizing five days certification programme on “ **Angular JS and Node JS** Angular JS and Node JS” from 18th to 22nd Dec 2023. The resource person for this certification course is **Mrs. Shwetha R J , Associate Developer , Globalpayex Pvt Ltd , Mangalore**. In this regard all the students are informed to attend the same without fail. Certificate will be provided upon completion of the course and passing the test with 85% of marks.

Coordinator

Dr. Shivaprasad B J

HoD

Mr. Jayantkumar A Rathod

H.O.D
Dept. of Computer Science and Design
Alva's Institute of Engg. & Technology
Mijar, Moodubidire - 574 225

Resource Person

Mrs. Shwetha R J,
Associate Developer,
Globalpayex Pvt Ltd,
Mangalore

Convener

Mr. Jayantkumar A Rathod

Coordinator

Dr. Shivaprasad B J

ABOUT THE INSTITUTION

Alva's Institute of Engineering and Technology (AIET) was established in the year 2006. The college is certified to the ISO 9001:2015 standards. It provides quality education in the fields of Engineering, Management, Architecture, Design, and Information Technology. The college is a member of the All India Engineering Council (AIET) and is affiliated to VTU, Belagavi. The Department of Computer Science and Design is one of the leading departments in the college. It provides quality education in the fields of Computer Science and Design. The department is equipped with the latest software and hardware facilities. The faculty members are highly qualified and experienced. They provide quality education to the students. The department is also involved in various research and development activities. It has published several research papers in various journals and conferences.

Alva's Institute of Engineering and Technology (AIET) was established in the year 2006. The college is certified to the ISO 9001:2015 standards. It provides quality education in the fields of Engineering, Management, Architecture, Design, and Information Technology. The college is a member of the All India Engineering Council (AIET) and is affiliated to VTU, Belagavi. The Department of Computer Science and Design is one of the leading departments in the college. It provides quality education in the fields of Computer Science and Design. The department is equipped with the latest software and hardware facilities. The faculty members are highly qualified and experienced. They provide quality education to the students. The department is also involved in various research and development activities. It has published several research papers in various journals and conferences.

About the Department

The CSD Department started in the year 2021 with an intake of 60. The department is affiliated to VTU, Belagavi. The Department has well qualified faculty to provide industry oriented cutting-edge technologies education to students. The faculty members participate in various workshops and FDP to enhance their knowledge and deliver the same to students. The Department has well equipped laboratories with latest configuration, completely networked and latest software for applications development. The faculty and students publish papers in various journals and conferences.

Alva's Institute of Engineering and Technology



ALVA'S

5 Days Certification Program

On

"Angular JS and Node JS"

From

18-22 Dec 2023

Organized By

Department of Computer Science and Design



Course Content

Angular JS

1. Introduction to Angular JS and Node JS
2. Environment setup
3. MVC Architecture
4. Creating an Angular JS application
5. Controllers and Filters
6. Forms and AJAX

Node JS

1. Installing NodeJS on a computer system
2. Running JavaScript files
3. NodeJS package download
4. Checking the NodeJS version
5. Running JavaScript in the Node REPL
6. Server-side JavaScript runtime

Vision

To be a globally recognized center in education, research and innovation in the field of computer science and design.

Mission

- To practice the latest industry trends in teaching learning process to make students ready for professional life.
- To encourage interactions with experts in various domain from the industry/academia to inspire students to upgrade themselves in emerging trends and technologies.
- To collaborate with industry and professional bodies for the students to gauge the market trends and train accordingly.
- To inculcate ethics and human values among students and also to nurture innovation, entrepreneurship, research among students by providing a supportive environment where learning through active participation is encouraged.

Program Schedule

18-Dec-2023

Inauguration: 09:00 am to 10:00 am
Keynote Address: 10:00 am to 11:00 am
Tea Break: 11:00 am to 11:15 am
Session 1: 11:15 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 2: 02:00 pm to 05:00 pm

19-Dec-2023

ISession 3: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 4: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 5: 02:00 pm to 05:00 pm

20-Dec-2023

Session 6: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 7: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 8: 02:00 pm to 05:00 pm

21-Dec-2023

Session 9: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 10: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 11: 02:00 pm to 05:00 pm

22-Dec-2023

Session 12: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 13: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 14: 02:00 pm to 04:00 pm
Validictory 04:00 pm to 05:00 pm

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Department of Computer Science and Design



Certification Course on Angular JS and Node JS

From 18th To 22nd Dec 2023

Student List

SL. NO	USN	Student Name	18/12	19/12	20/12	21/12	22/12	Signature
1	4AL21CG001	ABDUL AZEEZ	1	2	3	4	5	<i>Asreez</i>
2	4AL21CG002	ABHISHEK E B	1	2	3	4	5	<i>Abhi</i>
3	4AL21CG003	ABHISHEK N C	1	2	3	4	5	<i>Abhishek NC</i>
4	4AL21CG004	ADARSH BHAVIMANE	1	2	3	4	5	<i>Adarsh</i>
5	4AL21CG005	ALEX TAJENJAM	1	2	3	4	5	<i>Alex</i>
6	4AL21CG006	ANUSHIA N T	1	2	3	4	5	<i>Anushia</i>
7	4AL21CG007	ASHISH BHUTKURI	1	2	3	4	5	<i>Ashish</i>
8	4AL21CG008	ASHWIN K S	1	2	3	4	5	<i>Ashwin</i>
9	4AL21CG009	B PRAKASH	1	2	3	4	5	<i>Prakash</i>
10	4AL21CG010	BALAJI S KULKARNI	1	2	3	4	5	<i>Balaji</i>
11	4AL21CG011	BHARAT	1	2	3	4	5	<i>Bharat</i>
12	4AL21CG012	BHAVISH M K	1	2	3	4	5	<i>Bhavish</i>
13	4AL21CG013	CHANDAN KUMAR M	1	2	3	4	5	<i>Chandan</i>
14	4AL21CG014	CHINMAY T N	1	2	3	4	5	<i>Chinmay</i>
15	4AL21CG015	DARSHAN RAI	1	2	3	4	5	<i>Darshan</i>
16	4AL21CG016	DEEKSHITH ACHARYA	1	2	3	4	5	<i>Deekshith</i>
17	4AL21CG017	DEEPASHREE G NAIK	1	2	3	4	5	<i>Deepashree</i>
18	4AL21CG018	DEVADIGA ROSHNI N	1	2	3	4	5	<i>Devadiga</i>
19	4AL21CG019	DHANUSRI R	1	2	3	4	5	<i>Dhanusri</i>
20	4AL21CG020	DHANUSH A S	1	2	3	4	5	<i>Dhanush</i>
21	4AL21CG021	DHANUSH SHENOY	1	2	3	4	5	<i>Dhanush</i>
22	4AL21CG022	DHEERAJ SHETTY	1	2	3	4	5	<i>Dheeraj</i>
23	4AL21CG023	ESHWARI K C	1	2	3	4	5	<i>Eshwari</i>
24	4AL21CG024	GHRUTHAVARSHA K G	1	2	3	4	5	<i>Ghruthavarsha</i>
25	4AL21CG025	GIREESH H	1	2	3	4	5	<i>Gireesh</i>
26	4AL21CG026	H M TUSHAR	1	2	3	4	5	<i>H M Tushar</i>
27	4AL21CG027	HARSHITH	1	2	3	4	5	<i>Harshith</i>
28	4AL21CG028	HEMANTH MUNAVALLI	1	2	3	4	5	<i>Hemant</i>
29	4AL21CG029	JAJNAVI V	1	2	3	4	5	<i>Jajnavi</i>
30	4AL21CG030	JAYAPRAKASH P	1	2	3	4	5	<i>Jayaprakash</i>
31	4AL21CG031	KARTHIK	1	2	3	4	5	<i>Karthik</i>
32	4AL21CG032	KARTHIK P NAIK	1	2	3	4	5	<i>Karthik</i>
33	4AL21CG033	KIRAN KUMAR K	1	2	3	4	5	<i>Kiran</i>
34	4AL21CG034	LAKSHMISHA K A	1	2	3	4	5	<i>Lakshisha</i>
35	4AL21CG035	LIKHITH L	1	2	3	4	5	<i>Likhith</i>

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Department of Computer Science and Design

36	4AL21CG036	MANOJ M	1	2	3	4	5	<i>[Signature]</i>
37	4AL21CG037	MOHAMMED SAAD	1	2	3	4	5	<i>[Signature]</i>
38	4AL21CG038	NAKUL N	1	2	3	4	5	<i>[Signature]</i>
39	4AL21CG039	NARESH MAIBAM	1	2	3	4	5	<i>[Signature]</i>
40	4AL21CG040	NAYANA S M	1	2	3	4	5	<i>[Signature]</i>
41	4AL21CG041	NISHAAN H. SHETTY	1	2	3	4	5	<i>[Signature]</i>
42	4AL21CG042	PRATHVIRAJ K	1	2	3	4	5	<i>[Signature]</i>
43	4AL21CG043	RACHANA	1	2	3	4	5	<i>[Signature]</i>
44	4AL21CG044	RAKSHA SIDDESH G	1	2	3	4	5	<i>[Signature]</i>
45	4AL21CG045	RAKSHITHA	1	2	3	4	5	<i>[Signature]</i>
46	4AL21CG046	RANJEETH P JAIN	1	2	3	4	5	<i>[Signature]</i>
47	4AL21CG047	RIDHI R HEGDE	1	2	3	4	5	<i>[Signature]</i>
48	4AL21CG048	SANDHYA MOOLYA	1	2	3	4	5	<i>[Signature]</i>
49	4AL21CG049	SHARVARI M S	1	2	3	4	5	<i>[Signature]</i>
50	4AL21CG051	SHIBANI	1	2	3	4	5	<i>[Signature]</i>
51	4AL21CG052	SHIVANI	1	2	3	4	5	<i>[Signature]</i>
52	4AL21CG053	SHRAVYA	1	2	3	4	5	<i>[Signature]</i>
53	4AL21CG054	SHREEYA L	1	2	3	4	5	<i>[Signature]</i>
54	4AL21CG055	SINDHU N	1	2	3	4	5	<i>[Signature]</i>
55	4AL21CG056	SHREE GANESH M S	1	2	3	4	5	<i>[Signature]</i>
56	4AL21CG057	SUJAY KUMAR B ADOOR	1	2	3	4	5	<i>[Signature]</i>
57	4AL21CG058	SURAJ	1	2	3	4	5	<i>[Signature]</i>
58	4AL21CG059	SURAKSHA	1	2	3	4	5	<i>[Signature]</i>
59	4AL21CG060	VIKRAM	1	2	3	4	5	<i>[Signature]</i>
60	4AL21CG061	VIMALKUMAR U R	1	2	3	4	5	<i>[Signature]</i>
61	4AL21CG062	VINITH KALIKAR	1	2	3	4	5	<i>[Signature]</i>
62	4AL21CG063	YASHUYADAV A	1	2	3	4	5	<i>[Signature]</i>
63	4AL22CG400	MADHUSOODHAN K S	1	2	3	4	5	<i>[Signature]</i>
64	4AL22CG401	CHETHAN	1	2	3	4	5	<i>[Signature]</i>
65	4AL22CG402	SARVESH	1	2	3	4	5	<i>[Signature]</i>

Coordinator

Dr. Shivaprasad B J

HOD

Mr. Jayantkumar a Rathod

H.O.D
Dept. of Computer Science and Design
Alva's Institute of Engg. & Technology
Mijar, Moodubidire - 574 225

PRINCIPAL

Alva's Institute of Engg. & Technology,
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Feedback Form

Resource Person : **Mrs. Shwetha R J**

1. The resource person was well prepared and knowledgeable.

Strongly Disagree-1	Disagree-2	Agree-3	Strongly Agree-4
---------------------	------------	---------	------------------

2. The resource person presented the contents in a clear and well-organized manner.

Strongly Disagree-1	Disagree-2	Agree-3	Strongly Agree-4
---------------------	------------	---------	------------------

3. The resource person answered all our queries.

Strongly Disagree-1	Disagree-2	Agree-3	Strongly Agree-4
---------------------	------------	---------	------------------

4. The resource person covered all the topics as per the schedule.

Strongly Disagree-1	Disagree-2	Agree-3	Strongly Agree-4
---------------------	------------	---------	------------------

5. The content covered will be useful for my future knowledge.

Strongly Disagree-1	Disagree-2	Agree-3	Strongly Agree-4
---------------------	------------	---------	------------------

6. The activities and assignment were relevant to the course content.

Strongly Disagree-1	Disagree-2	Agree-3	Strongly Agree-4
---------------------	------------	---------	------------------

7. The resource person encouraged participants interaction.

Strongly Disagree-1	Disagree-2	Agree-3	Strongly Agree-4
---------------------	------------	---------	------------------

8. The resource person kept me engaged and interacted.

Strongly Disagree-1	Disagree-2	Agree-3	Strongly Agree-4
---------------------	------------	---------	------------------

9. Overall , the session was attractive and sufficient information was delivered by the resource person

Strongly Disagree-1	Disagree-2	Agree-3	Strongly Agree-4
---------------------	------------	---------	------------------

10. The certification objectives were met.

Strongly Disagree-1	Disagree-2	Agree-3	Strongly Agree-4
---------------------	------------	---------	------------------

If any other remarks or comments or suggestions you would like to make.

Resource person explained all the concepts neatly.
Need some more certification courses from the same resource person.

Multiple choice Questions on Angular JS and Node JS

- Which of the following statement is true for AngularJS?**
 - AngularJS is a closed-source front-end web framework
 - AngularJS is an open-source front-end web framework*
 - AngularJS is an open-source backend web framework
 - AngularJS is a closed-source back-end web framework
- Which of the following is the correct syntax for writing AngularJS expressions?**
 - `{{expression}}` b) `{{expression | filter1 | filter2 | ...}}`
 - Both of the mentioned d) None of the mentioned
- Which of the following components can be injected as a dependency in AngularJS?**
 - factory b) service c) value d) *All of the above*
- AngularJS expressions bind AngularJS data to HTML like which of the following directive?**
 - ng-repeat b) *ng-bind* c) ng-app d) ng-model
- What is a Model in MVC?**
 - the lowest level of the pattern responsible for maintaining data*
 - represents server-side data c) represents data stored in a database
 - None of the mentioned
- Which of the following is an advantage of AngularJS?**
 - Uses dependency injection and makes use of separation of concerns
 - Code is unit-testable c) Provides reusable components
 - All of the mentioned*
- AngularJS is a _____.**
 - HTML Framework b) Net Framework
 - JavaScript framework* Oracle Framework
- AngularJS is distributed as a _____.**
 - JavaScript file* b) PHP file c) XML file d) ASP file
- AngularJS is perfect for _____.**
 - Create Single Page Applications* b) Creating a Desktop Application
 - Create Web Services d) None of these
- On which of the Architectural pattern AngularJS is based?**
 - Observer Pattern b) Decorator pattern
 - MVC Architecture pattern* d) *MVVM Architectural pattern*

Ujjay Kumar Adoor

Multiple choice Questions on Angular JS and Node JS

1. Which of the following statement is true for AngularJS?

- a) AngularJS is a closed-source front-end web framework
- b) AngularJS is an open-source front-end web framework
- c) AngularJS is an open-source backend web framework
- d) AngularJS is a closed-source back-end web framework

2. Which of the following is the correct syntax for writing AngularJS expressions?

- a) {{expression}}
- b) {{expression | filter1 | filter2 | ...}}
- c) Both of the mentioned
- d) None of the mentioned

3. Which of the following components can be injected as a dependency in AngularJS?

- a) factory
- b) service
- c) value
- d) All of the above

4. AngularJS expressions bind AngularJS data to HTML like which of the following directive?

- a) ng-repeat
- b) ng-bind
- c) ng-app
- d) ng-model

5. What is a Model in MVC? *

- a) the lowest level of the pattern responsible for maintaining data
- b) represents server-side data
- c) represents data stored in a database
- d) None of the mentioned

6. Which of the following is an advantage of AngularJS? *

- a) Uses dependency injection and makes use of separation of concerns
- b) Code is unit-testable
- c) Provides reusable components
- d) All of the mentioned

7. AngularJS is a _____ a) HTML Framework b) Net Framework

- c) JavaScript
- d) framework Oracle Framework

8. AngularJS is distributed as a _____.

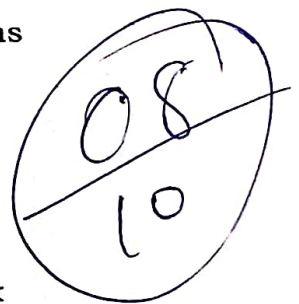
- a) JavaScript file
- b) PHP file
- c) XML file
- d) ASP file

9. AngularJS is perfect for _____.

- a) Create Single Page Applications
- b) Creating a Desktop Application
- d) Create Web Services
- d) None of these

10. On which of the Architectural pattern AngularJS is based?

- a) Observer Pattern
- b) Decorator pattern
- c) MVC Architecture pattern
- d) MVVM Architectural pattern





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Date : 25/Dec/2024

Report on Certification Course "Angular JS and Node JS"

The Department is organized five days certification programme on "Angular JS and Node JS" from 18th to 22nd Dec 2023. The resource person for this certification course was **Mrs. Shwetha R J**, Associate Developer, Globalpayex Pvt Ltd, Mangalore. The participants were students of 5th semester. A total of 65 students participated in this certification course.



Fig 1 : Resource person explaining to the students

The resource person explained about basic concepts of Java and then in depth about Angular JS and Node JS with differences between them.. She also explained the concept through practical example. She explained features of Angular JS with implementation. Similarly features of Node JS with implementation was explained by her. All the students got benefitted out through this course. Finally HoD thanked the resource person for accepting request to be a resource person for this.

Coordinator

(Dr. Shivaprasad B J)

HoD

(Mr. Jayantkumar A Rathod)

H.O.D

Dept. of Computer Science and Design
Alva's Institute of Engg. & Technology
Mijar, Moodubidre - 574 225

Principal

PRINCIPAL

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Appreciation Letter

Date : 22/Dec/2023

To,

Mrs. Shwetha R J ,

Associate Developer ,

Globalpayex Pvt Ltd , Mangalore

Dear Mrs. Shwetha R J

On behalf of the Management, Principal and Department, I would like to express my sincere gratitude for conducting this certification course to our 5th semester students on "Angular JS and Node JS "from 18th-22nd Dec 2023.

The certification course was informative, knowledgeable and thought provoking. The hands-on session helped students to understand more about Angular JS and Node JS. All the students got benefitted from this course.

The institution and Department appreciates your time, dedicated effort for conducting the certification course and contribution made in enhancing the knowledge of students in this field. I thank you very much for accepting the request and doing the needful. We look forward to work with you in future endeavors.

Thanking You,

HoD

(Mr. Jayantkumar A Rathod)

H.O.D
Dept. of Computer Science and Design
Alva's Institute of Engg. & Technology
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Department of Computer Science and Design

Summary Report of Add-on / Certification with its outcomes

Academic Year	Duration : 18 th -22 nd Dec 2024
Title of the Certification Course	Angular JS and Node JS
Resource Person :	Mrs.Shwetha R J

The Department organized a five days certification course on "Angular JS and Node JS" from 18th to 22nd Dec 2023. The resource person was Mrs. Shwetha R J , Associate Developer , Globalpayex Pvt Ltd , Mangalore. The participants were students of 5th semester. A total of 65 students attended the course.

Following were the outcomes of the certification course.

Benefits of Angular

Right use of MVC: Angular implements MVC by splitting up an app into MVC components at first. It then acts as a mediator, manages these components and also serves as the pipeline that connects them.

Declarative User Interface: Angular uses HTML; a declarative language which is more intuitive and less convoluted than defining the interface procedurally in JavaScript. It thus simplifies the app development process.

Plain Old JavaScript Objects (POJO): Data models in Angular are Plain Old JavaScript Objects (POJO) that are not bound by any special restriction and do not require any class path. These data models do not require extraneous getter and setter functions.

Unit Testing Ready: Angular JS unit tests are able to take over Dependency Injection (DI) to perform unit testing by injecting mock data into your controller and measuring the output as well as behavior.

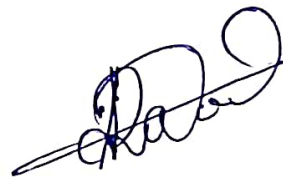
Benefits of NodeJS

Push Capability: Push technology is an internet communication system in which the transaction request is generated by the central web server or publisher. NodeJS is best for developing websites and web applications with push capabilities.

Non-Blocking I/O Model: Node.js is operated on a non-blocking I/O model that makes it ideal for the data-intensive real-time applications which have to perform in varied environments.

Less Coding: NodeJS makes it easier to transport data between the server and the client since there is less coding involved. This enables simultaneous posting of data on client and the server.

Application Productivity: Web applications developed using NodeJS help combine the front-end and back-end teams of an enterprise therefore improving productivity.



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