KLS Gogte Institute of Technology, Belagavi

Department of Computer Science & Engineering Program: BE Academic Year: 2019-20

Internal Assessment Test I

Course: Advanced Web (Elective) Semester: V Code: 16CS551
Max. Marks: 25 Duration: 1 Hr. Date: 18/09/2019

Instructions: Answer any 5 out of 7 questions. Each carry equal Marks.

1. Define ajax? Bring out the difference between tradition model and ajax model with appropriate diagram.

List and explain any five

basic principles of ajax. [L2, CO1, PO1]. 5M

 Define Angular Js? Differentiate one way data binding and two way data binding with appropriate diagram. [L1,L2, CO1, PO1]. 5M

3. Define the following
a.Cache Control b. Full stack development c.Node Js d.mongoose [L1, CO1, PO1]. 5M
e.github

KLS Gogte Institute of Technology, Belagavi
Department of Computer Science & Engineering Academic Year: 2018-19

Internal Assessment Test I – FAST TRACK

Subject: Advanced Web (Elective)

Semester: V

Max. Marks: 25

Code: 16CS551

Date: 01/07/2019

Duration: 1 Hr.

Note: Answer any 5 questions.5 Marks each.

1. a) Illustrate the HTTP response format with proper example.

b) List out the common status codes for HTTP response. [L3, CO1, PO3]. 5M

2. Define Angular Js? Differentiate between relational and document databases.

[L1,L2, CO1, PO1]. 5M

- 3. List and explain the Application Architecture options for building a MEAN Stack application with appropriate diagram. [L1,L3, CO1, PO1]. 5M
- 4. Explain the five different stages of rapid prototype development in building the MEAN stack application [L3, CO1, PO1]. 5M

Fourth Semester B.E. Fast Track Semester End Examination Oct/Nov 2020 Advanced Web Programming

- 1. List and explain any five basic principles of ajax L2 CO-1, PO1 05M
- 2. Write an ajax code to fetch content from a text file and display it on the webpage. L3,CO-1,PO-3 10M
- 3. Explain with example code methods and properties of XMLHTTP object L2, CO-1,PO-1 10M
- 4. Write a code to implement Google Suggest like feature using Ajax and PHP L3, CO-1,PO-3 10M
- 5. a. Explain with the Diagram one-way data binding and two-way data binding. L2, CO-1,PO-1 $10\mathrm{M}$

- b. What is the difference between development hardware and production hardware? Recommend suitable hardware architecture for the following Scenarios. Justify your recommendations.
 - i. An application with low amount of traffic
 - ii. For Platform as a Service
 - iii. Growing traffic
 - iv. Overloading traffic or thousands of requests per second. L5, CO-1,PO-3 10M

KLS Gogte Institute of Technology, Belagavi
Department of Computer Science & Engineering Academic Year: 2020-21

Internal Assessment Test I – FAST TRACK

Subject: Advanced Web (Elective)

Semester: V

Max. Marks: 25

Code: 16CS551

Date: 30/08/2021

Duration: 2 Hr.

Note: Answer any 5 questions.5 Marks each.

1. Define Angular Js? Differentiate between relational and document databases.

[L1,L2, CO1, PO1]. 5M

Department of Computer science and Engineering Fifth Semester – Advanced Web (16CS551) Open Book Assignment -1 Submission Date: 01-09-2021

1 Design a html form for Student registration form along with the following information: Student Name, USN, Branch, Semester. Perform form validation of all the fields with appropriate event handlers using AJAX.

Fourth Semester B.E. Fast Track Semester End Examination Oct/Nov 2021 Advanced Web Programming

- 1. a. Compare classic web application model with Ajax Web application model L2 CO-1, PO1 05M
- 2 a. Explain the benefits of full stack development. L2, CO-1,PO-1 05M
 - b. Which is the better approach : Single threaded web server or multithreaded server ? Justify your answer with proper reasoning.

 L4 CO-1 PO-1 05 M
- 3 a. Explain with the diagram MEAN stack architecture. Also explain the purpose of each technology in MEAN stack. L2, CO-1,PO-1 10M
 - b. Recommend a suitable MEAN stack architecture for blog application. The blog application has to interfaces one for blog entries and another for admin interface. While designing architecture

KLS Gogte Institute of Technology, Belagavi

Department of Computer Science & Engineering Academic Year: 2021-22(ODD SEM)

Program: B.E (Computer Science) Semester: 5

Assignment - 1

Course Title: ADVANCED WEB Code: 18CS551

Duration: 1 Hr Date: 01-12-2021

Answer all questions(Each question carries equal marks)

Q. No.		[L]]	[CO	[PO]
1	Define AJAX. How is it different from traditional development? List and explain in brief any 5 websites using AJAX.	1,2	1	1
2	Develop a web page which reads from a text file and on click of a button, displays the content using AJAX.	3	1	2
3	Explain (i) DOM (ii) DOM tree. Develop a page to update page content dynamically using DOM.	2,3	2	2
4	Explain (i) Node.js and its benefits. (ii)AngularJS and its benefits. Explain with diagram one-way data binding and two-way data binding.	2	2	3
5	Explain the 5 stages of the development of a website.	2	2	3

- 1. Explain the different request methods and any *five* HTTP status codes available for REST API
- 2. What are the rules of REST API? Explain How REST API processes HTTP requests with proper diagram
- 3. Explain the Request methods for REST API.
- 4. How to delete a document in MongoDB given an ID? Write the controller code for it.
- 5 a. Explain the working of REST API's with diagram.
 - b. Explain the following
 - i. Validating at the application level with Node and Express.
 - ii. Validating in the browser with JQuery.
 - iii. Explain the Request Methods for REST APIs
- 6. a. Explain
 - iv. Deleting document in MongoDB
 - v. Deleting a subdocument from MongoDB
- 7. How do you find a single document and a sub-document in MongoDB using Mongoose
- 8 Explain how to find a single document based in IDs using GET method. Develop the snippet of code by using the findById and exec methods.
- 9. Explain the building of the API request and using the response data to develop a sample Web page.
- 10. Develop a snippet of code to query the API using a unique ID from a URL parameter
- 11. Explain in brief how to call an API from Express using:
 - (i)Adding the request module
 - (ii)Setting up default options
 - (iii)Using the request module

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		Fifth Semester B.E. Semester End Examination, Dec.	Jan.	2019-	20	
	areas Augusta	ADVANCED WEB PROGRAMMING				
Tin	ne: 3	Hours		Max. M	arks:	100
	April 1	Instructions: 1. Answer one full question from each unit	t.			
42524		2. Draw the diagrams wherever necessary.	,	· A	4	The
		Section 1. Annual Control of the Section of the Section 1.	L	СО	PO	M
1	9	UNIT - I List out difference between frames and hidden frames	L		A.	147
	a.	Elst out difference between mames and masses	(1)	(1)	(1)	(04)
	b.	Explain HTTP responses along with status codes	(2)	(1)	(1)	(06)
	c.	Write a short note on i)Google Suggest ii)Gmail iii)Google Maps iv) Yahoo News v) Bitfl	uv Blo	ıσ		
		i)Google Suggest ii)Gmail iii)Google Maps iv) Yahoo News v) Bitfl	(2)	(1)	(1)	(10)
		OR				
2	a.	List and Explain any six principles of Ajax.				
	b.	Describe with the diagram the advantages and disadvantages of XHR.	(2)	(1)	(1)	(06)
	0	Define Design patterns. Explain predictive fetch pattern and submission th	(2) rottlin	(1) g patter	(1) n.	(04)
	C.	Define Design patterns. Explain predictive feter pattern and such assess a	(2)	(1)	(1)	(10)
		UNIT – II	L	CO	PO	\mathbf{M}
3	a.	List the benefits of full stack development.	(1)	(1)	(1)	(05)
	b.	Explain with the diagram one-way data binding and two-way data binding		(4)	(4)	(10)
		Write a short note on hardware architecture for MEAN stack development	(2)	(1)	(1)	(10)
	C.	Write a short note on hardware architecture for MEAN stack developmen	(3)	(1)	(1)	(05)
		OR			No.	
*	a.	Compare relational databases and document databases.	*			
		E li id de l' NEAN et de relitation Alexandria the ann	(2)	(1)	(1)	(05)
	b.	Explain with the diagram MEAN stack architecture. Also explain the pur MEAN stack.	pose (or each t	ecinioi	ogy III
		ATD AT SILEK.	(2)	(1)	(1)	(10)
	c.	List and explain rapid prototype development stages of MEAN stack arch				(O.F.)
			(2)	(1)	(1)	(05)
-		UNIT - III	L	CO	PO	M
5	a.	Explain request response flow of MVC architecture.	(2)	(1)	(1)	(05)
A STATE OF THE STA	b.	The add_review page must contain a form with name, rating and review fill in and submit for a particular location. The appropriate error handling for the submission of the form. Write the code for add_review.jade	w field: g mech	s which anism n	the us nust be	er will added
2-1- (b-1-	fair S	desktop and mobile screen layouts for the same.			TF	1
			(5)	(2)	(3)	(10)
	c.	Explain how you test routes and controllers.				F.

(05)

(1)

(2)

(1)

OR

6	a.	Illustrate defining of package.json file.		Jav	745	(O =)
			(4)	(1)	(1)	(05)
	b.	Explain the steps involved in pushing the site live using Git.	(2)	(4)	(4)	(0.5)
			(2)	(1)	(1)	(05)
	c.	Write the code for complete database connection file using mongoose	(2)	(2)	(2)	(10)
		7	(3)	(2)	(3)	(10)
		UNIT - IV	T.	CO	PO	M
7	a.	Differentiate between good API and bad API and List down the various			700-	(10)
	1	E 1: DELETE and also among data from ManagaDD	(2)	(3)	(1)	(10)
	b.	Explain DELETE method to remove data from MongoDB.	(2)	(3)	(1)	(10)
		O.D.	(2)	(3)	(1)	(10)
0		OR	D request	6		
8	a.	Define REST API and its rules. Explain how REST API processes HTT	(2)	(3)	(1)	(05)
	b.	Explain how to update an existing subdocument in MongoDB		(3)		(05)
	0.	Explain now to update an existing subdocument in Prongo B	(2)	(3)	(1)	(05)
	c.	Explain	3 (-)	(-)	(-)	()
	Ο.	i) Validating at the application level with NODE and Express				
		ii) Validating with browser with jQuery				
			(2)	(03)	(1)	(10)
		UNIT -V	L	CO	PO	M
9	a.	Describe how to add angular to Express application				
			(2)	(1)	(1)	(05)
	b.	Write a short note on one-way password encryption using hashes and sa				(0.5)
			(2)	(1)	(1)	(05)
	C.	Explain the Full MEAN stack approach for authentication	(2)	(2)	(1)	(10)
		ACY .	(2)	(3)	(1)	(10)
		OR				
10	a.	Explain how to make HTTP requests from angular to an API	(2)	(2)	(1)	(10)
	1.	Elsh saste and have do see Samesaya browner norformer as	(2)	(3)	(1)	(10)
	b.	Elaborate on how do you improve browser performance	(2)	(1)	(1)	(10)
		A family	(2)	(1)	(1)	(10)

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		Fifth Semester B.E. Makeup Examination, January 2020			
Tr:		ADVANCED WEB PROGRAMMING			
111	ne: .	3 Hours	ax. M	arks:	100
		Instructions: 1. Answer one full question from each unit.2. Draw the diagrams wherever necessary.			1
		UNIT - I	co c	PO	M
1	a.		The same		111
		(02)	(01)	(01)	(05)
	b.		it with	the h	elp of
		(03)	(02)	(03)	(10)
	C.	The state of the s			
	•		(01)	(01)	(05)
2	a.	Consider a system where a user registers himself/herself with an html form			
		information. There is another user called administrator who verifies the registration and approves their registration. The notification related to registration is received 24 hours. The login to the system is possible only when the registration is success design pattern that must be used to develop the system and write the code for the same	by the ssful.	user v	within
	1.	(05)	(02)	(03)	(10)
	b.	(02)	le. (01)	(01)	(05)
	c.		(0.4)	(0.4)	
			(01)	(01)	(05)
3	0		CO	PO	M
3	a.	on supporting east for MEMIN stack application development.	0.43	(0.1)	
	b.		(01) reens	(01) require	(05) ed for
		(02) (01)	(01)	(05)
	c.	What is the difference between development hardware and production hardware suitable hardware architecture for the following cases. i) An application with low amount of traffic ii) For platform as a service	are? I		mend
		iii) Growing traffic			
		iv) Overloading traffic or thousands of requests per second			
			01)	(03)	(10)
		OR .		(00)	(10)
4	a.	Recommend suitable MEAN stack architecture for blog application. The blog ap	plicat	ion ha	s two
		interfaces one for blog entries and another for admin interface. While desig	ning	archite	ecture

b. Describe the steps in designing the Loc8r application with appropriate diagrams

interfaces.

consider conflicting architecture requirements of both the interfaces i.e., blog entries and admin

(01)

(03) (10)

		UNIT - III	\mathbf{L}	CO	PO	M
5	a.	Explain the key interactions and processes that Express goes through wh for the default landing page.	en resp			
		O Property	(02)	(01)	(01)	(10)
	b	Explain Bootstrap's responsive grid system with appropriate diagram	()	(02)	(01)	(10)
			(02)	(01)	(01)	(05)
	C.	Design the mongoose schema for Details page of loca8r application with		data	()	()
			(03)	(02)	(03)	(05)
		OR			han	
6	a.	Explain how do you import bootstrap for responsive layouts				
			(02)	(01)	(01)	(10)
	b.	What is mongoose? Explain how mongoose models the data.		The same	Marine I	
				(01)	(01)	(05)
	C.	Explain how a relational database and document database store repeating	inform	ation re	lating t	o a
		parent element.	1	*		
		Many	(02)	(01)	(01)	(05)
_		UNIT - IV	L	CO	PO	M
7	a.	Explain the request methods of REST API				
			(02)	(03)	(01)	(05)
	b.	Illustrate creation of				
		i) New Document in MongoDB.				
		ii) Subdocument in MongoDB.	(0.2)	(0.2)	70.43	(4.0)
	c.	Explain the validation at the schema level with mongoose.	(02)	(03)	(01)	(10)
	0.	Explain the validation at the schema level with mongoose.	(02)	(02)	(01)	(0.5)
		OR	(02)	(03)	(01)	(05)
8	a.		- 1 -1		· · · · · · · · · · · · · · · · · · ·	
0	a.	Explain how to find out a single subdocument based on IDs using GET m		(02)	(0.1)	(0.5)
	b.	Explain how to pass the data from API to the view	(02)	(03)	(01)	(05)
	0.	Explain now to pass the data from AT to the view	(02)	(02)	(01)	(0.5)
	C.	Describe how to catch errors returned from API	(02)	(03)	(01)	(05)
		2 estitoe non to eaten citors retained from Ar i	(02)	(02)	(01)	(10)
		UNIT -V	(02)	(03)	(01)	(10)
9	a.	With diagram explain three different request loops associated with app		CO	PO	M
		express routing to Angular routing.	roaches	for sw	itching	Irom
		to ringular routing.	(02)	(01)	(01)	(10)
	b.	Explain traditional server based application approach for authentication	(02)	(01)	(01)	(10)
		approach for authoritection	(02)	(01)	(01)	(10)
		OR	(02)	(01)	(01)	(10)
10	a.	Write a short note \$scope.\$apply().				
	-	source occeptionsprif().	(02)	(0.1)	(01)	(05)
	b.	How to ensure that forms works as expected?	(02)	(01)	(01)	(05)
		Total de Saperior.	(02)	(01)	(01)	(05)
	c.	Explain the steps involved in removing the reliance on server side applica		(01)	(01)	(03)
			(02)	(01)	(01)	(10)

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T	mar 2	ADVANCED WEB PROGRAMMING Hours		Acr. M.	aules 1	00
nyoku m ining	me. 5		*	Iax. Ma	arks: 1	100
		Instructions: 1. Answer one full question from each uni 2. Draw the diagrams wherever necessary.				Æ
		handred and the Porthagan plants and the			Ann	A Br.
		UNIT - I	\mathbf{L}	CO	PO	M
1	a.	List out difference between frames and hidden frames	_		N.V	111
			(1)	(1)	(1)	(04)
	b.	Explain HTTP responses along with status codes		1	(4)	40.0
	c.	Write a short note on	(2)	(1)	(1)	(06)
	О.	i)Google Suggest ii)Gmail iii)Google Maps iv) Yahoo News v) Bitfl	ux Blog	5		
			(2)	(1)	(1)	(10)
_		OR				
2	a.	List and Explain any six principles of Ajax.	(2)	(1)	(1)	(06)
	b.	Describe with the diagram the advantages and disadvantages of XHR.	(2)	(1)	(1)	(06)
			(2)	(1)	(1)	(04)
1 474	c.	Define Design patterns. Explain predictive fetch pattern and submission the		_		
事: 15 · 15 · 15 · 15 · 16 · 16 · 16 · 16 ·	e Pare	UNIT - II	(2)	(1)	(1)	(10)
3	a.	List the benefits of full stack development.	L	CO	PO	M
		and the statement of th	(1)	(1)	(1)	(05)
200	b.	Explain with the diagram one-way data binding and two-way data binding				
	0	Write a short note on hardware exchitecture for MEAN stock development	(2)	(1)	(1)	(10)
	C.	Write a short note on hardware architecture for MEAN stack development	(3)	(1)	(1)	(05)
		OR	(0)	(-)		(00)
*,	a.	Compare relational databases and document databases,				
	1.	Participated and American American	(2)	(1)	(1)	(05)
	b.	Explain with the diagram MEAN stack architecture. Also explain the pur MEAN stack.	pose of	each te	chnolo	gy in
		THE THE STREET	(2)	(1)	(1)	(10)
	c.	List and explain rapid prototype development stages of MEAN stack archive				
			(2)	(1)	(1)	(05)
-		UNIT - III	L	CO	PO	M
5	a.	Explain request response flow of MVC architecture.	(2)	(1)	(1)	(05)
	b.	The add review page must contain a form with name, rating and review				

Explain how you test routes and controllers.

(5)

(2)

(10)

(05)

(3)

OR

b. Explain the steps involved in pushing the site live using Git. c. Write the code for complete database connection file using mongoose UNIT - IV Differentiate between good API and bad API and List down the various HTTP status codes. b. Explain DELETE method to remove data from MongoDB. (4) (1) (1) (2) (1) (1) L CO PO (2) (3) (1)	
c. Write the code for complete database connection file using mongoose UNIT - IV a. Differentiate between good API and bad API and List down the various HTTP status codes. b. Explain DELETE method to remove data from MongoDB. (2) (1) (1) L CO PO (2) (3) (3) (2) (3) (4) (1) (5) (1) (1)	(05)
The status codes. UNIT - IV a. Differentiate between good API and bad API and List down the various HTTP status codes. b. Explain DELETE method to remove data from MongoDB. (3) (2) (3) L CO PO (2) (3) (1)	(05)
 a. Differentiate between good API and bad API and List down the various HTTP status codes. b. Explain DELETE method to remove data from MongoDB. 	(10)
b. Explain DELETE method to remove data from MongoDB. (2) (3)	M
b. Explain DELETE method to remove data from MongoDB.	1
	(10)
(2) (3) (1)	(10)
OR	
8 a. Define REST API and its rules. Explain how REST API processes HTTP requests.	
b. Explain how to update an existing subdocument in MongoDB (2) (3) (1)	(05)
(2) (3) (1)	(05)
c. Explain	
i) Validating at the application level with NODE and Expressii) Validating with browser with jQuery	
(2) (03) (1)	(10)
UNIT -V L CO PO	\mathbf{M}
9 a. Describe how to add angular to Express application	
(2) (1) (1)	(05)
b. Write a short note on one-way password encryption using hashes and salts.	
c. Explain the Full MEAN stack approach for authentication (2) (1) (1)	(05)
The state of the s	Safaa .
(2) (3) (1)	(10)
10 a. Explain how to make HTTP requests from angular to an API	
The state of the s	(4.0)
b. Elaborate on how do you improve browser performance (2) (3) (1)	(10)
	(10)
	(10)