

Question 9

Not yet answered

Marked out of 10.00

Flag question

Discuss the value of the use of web services, SOAP, and REST

- Web services are exposed via well-defined and APIs providing integration
- Different types of clients like clients and mobile apps can communicate with web services via the
- Web services provide integration opposed to the integration of the web applications
- The capability of the web services is more than the web applications
- SOAP supports both message oriented and oriented communication
- is used to describe the API of the services using the standard format using XML
- uses on java when developing SOAP web services
- REST uses to depict , which are by URIs
- The interfaces of REST web services are based on the URL and



Construct a client-side event handler for a SAVE button (id of this button is "btnSave") of a browser-based Rich Web-based Application, using JS and jQuery, to implement insert operation. This event handler sends the data using DC (AJAX) to a web service to be inserted into a database.

```
$(document).ready(function() {
    $('#btnSave').click(function() {
        $.ajax({
            url: "http://www.bank.com/accounts/1234/transactions",
            data: $('#formCheckout').serialize(),
            type: "text",
            type: "POST",
            success: function(responseText) {
                onCheckoutComplete(responseText);
            }
        });
    });
});
```

Discuss the advantages and features of the use of web-based applications.

Choose... * can be used to add widgets to web pages rapidly

Web site is a collection of Choose... * web pages where a Choose... * can interact with the users and

Choose... * data

The Choose... * of the views is Choose... * using HTML and Choose... * using CSS for a nice presentation

Choose... * fonts in Choose... * allow using any font type for the text on web pages other than the

Choose... * fonts

Web-based applications utilize the network based on Choose... * and related technologies

Choose... * queries in CSS allow displaying content Choose... * which match to different types of

Choose... *

Choose... * can be used as a server side Choose... * to implement the Choose... * of web-based applications

The content of the Choose... * web pages can be generated using Choose... * in backend and Choose... *

code in the browser



Question 3

Not yet answered

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Flag question

Fill the correct word(s) in to value the use of frameworks, libraries, and plug-ins indicating their features.

NOTE: all the characters should be lowercase, no spaces at the beginning or end of the answer.

HINTS: Wordlist - api, calls, configurations, control, drives, framework, inverse of control, libraries, plugins, your code

- Plugins use to set up the behavior easily ✓
- The framework your code, which is referred to as the ✓
- contain code for pre-developed and tested features ✓
- are developed and tested small application programs, to add features rapidly ✓
- Libraries are called by providing the to your code ✓
- is a collection of libraries, rules, structures, and control, which provides tools to manage the software development ✓
- A library provides an for the coder to use its features ✓
- The framework the solution by dictating the overall architecture of the solution ✓





Question 1

Not yet answered

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Flag question

Differentiate the features of 3 different models of version control systems and GIT.

- A **branch** in a repo is an active line of development, which is a **label** pointing to a commit
- Users cannot collaborate using **local** VCSs
- Using Git, a remote repo can be **cloned** to **local disk** for working
- **centralized** VCSs can enable user collaboration but has a single point of failure
- Git is a **distributed** VCS, which enables **collaboration** and eliminates **single point of failure**
- A **repository** contains the project and **object database** to store history and **configurations**
- Version control systems are used to manage the **changes** to the source code
- The changed files and **folders** should be first **staged** and then **commit** before **pushing** to the remote repo
- A distributed VCS supports distributed and **non-linear** workflows for speed and **integrity**
- The local project contains files in the **working** area, which will be added to the staging area before committing

Quiz navigation



Finish attempt ...

Time left 1:43:27

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out of
question

Construct a client-side event handler for a SAVE button (id of this button is "btnSave") of a browser-based Rich Web-based Application, using JS and JQuery, to implement insert operation. This event handler sends the data using DC (AJAX) to a web service to be inserted into a database.

```
{  
  $(document).on("click", "#btnsave", function (event)  
  {  
    $.ajax (  
      {  
        url : "www.bank.com/accounts/1234/transactions",  
        type : $("#formCheckout"),  
        datatype : "text",  
        type : "  
        complete : function ( response , status )  
        {  
          onCheckoutComplete( response ,responseText, status );  
        }  
      }  
    );  
  }  
});
```


Differentiate the features of 3 different models of version control systems and GIT

- A in a repo is an active line of development, which
- Users cannot collaborate using VCSs
- Using GIT, a remote repo can be to
- VCSs can enable user collaboration but has a single
- GIT is a VCS, which enables
- A contains the project and
- Version control systems are used to manage the
- The changed files and should be first
- to the remote repo
- A distributed VCS supports distributed and w
- The local project contains files in the area. w

EXAMINATIONS

Sri Lanka Institute of Information Technology

Distinguish the use of AngularJS in client-side development of Rich Web-based Applications

- Angular uses , which overcomes the issues in such as no , hence difficult to find errors
- TypeScript uses types and OOP, therefore, good for applications development
- Angular has a feature, which enables automatic synchronization of data between the view and components
- Dependency injection in Angular allows injecting the to the

service classes

model

JavaScript

compilation

TypeScript

large

data-binding

supports

components

static



Online Exams

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Question 1

Not yet answered
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Quiz navigation

1	2	3	4	5	6	7	8
9	10						

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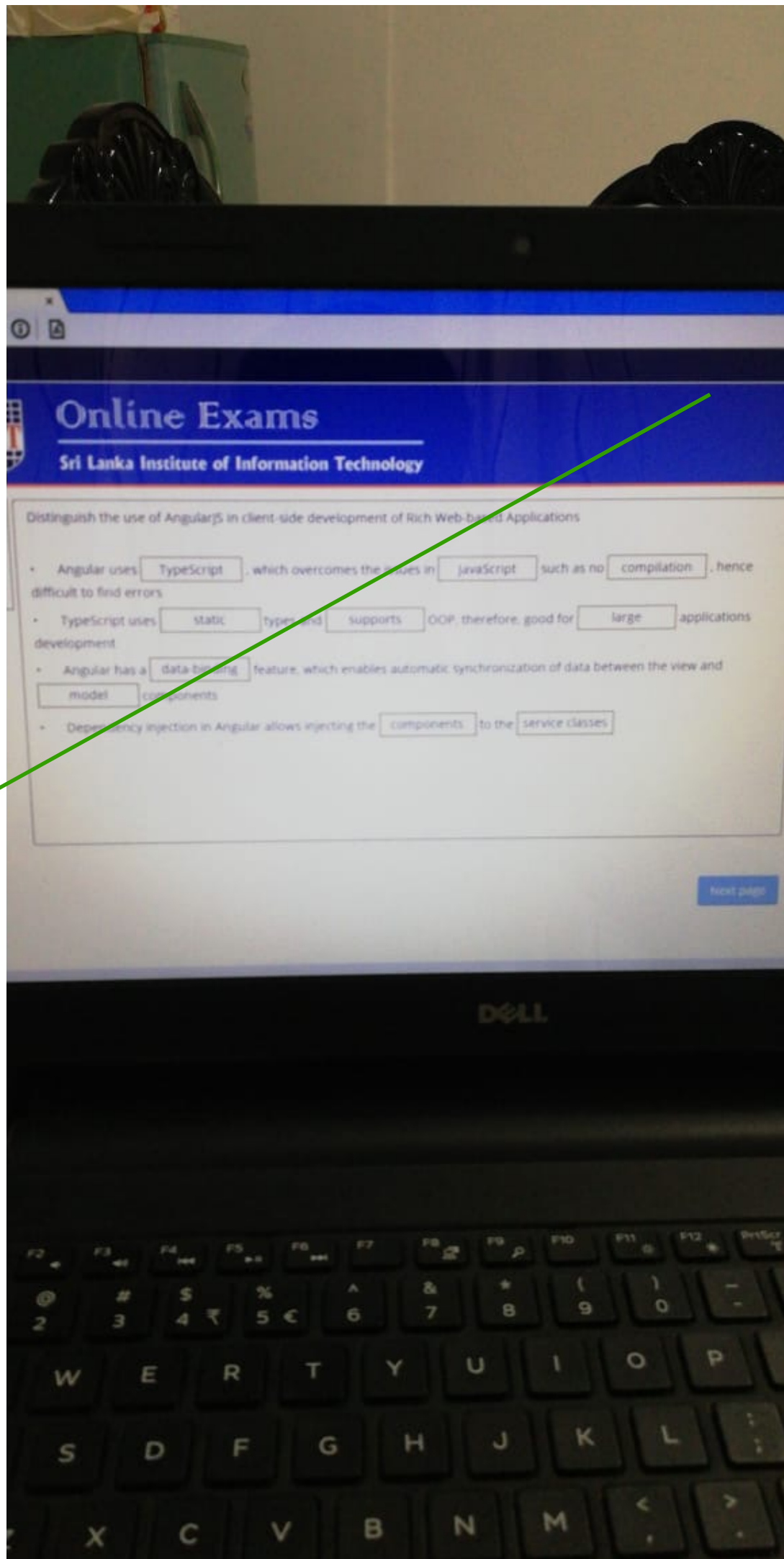
02

VIEW DEVELOPMENT PLUG-INS

- Plug-ins are mainly to add **widgets** to the Views
- However, may contain interactive components as well
- Therefore, can be seen as micro-applications

- MODAAL - <http://humaan.com/modaal/>
- DateDropper - <https://felicegattuso.com/datedropper/>

- <https://www.cssdesignwards.com/blog/10-cool-css-and-javascript-tuts-and-plugins/50/>



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Distinguish the use of AngularJS in client-side development of Rich Web-based Applications

- Angular uses , which overcomes the issues in such as no , hence difficult to find errors
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Next page

Distinguish the industry practices in software development and tools by their advantages

i think this is final paper question

- Forums are used to communicate and discuss related matters online
- runtimes provide application-level virtualization
- plugin improve the efficiency by distributing the libraries of web-based systems
- Dockers are a type of virtualization, which provides containers level virtualization
- Quality code increases the efficiency by unnecessary recourses elimination
- virtualization can be used to minimize the difference in development and OS environments
- Documenting and refactoring can improve the quality of the code
- Website content can be improved by distributing content closer to the visitors
- dependency management tools help to manage external artefacts like plugin
- Maven saves the dependency and content details in POM using XML
- VMs are used to virtualize hardware systems, similar to emulators

Quiz navig

1	2	3
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Finish attempt ...

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Question 3

Not yet answered

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State the advantages and features of the use of web-based applications

- can be used to add widgets to web pages rapidly
- Web-site is a collection of web pages where a can interact with the users and data
- The of the views is using HTML and using CSS for a nice presentation
- fonts in allow using any font type for fonts
- Web-based applications utilize the network based on and structures other than the different types of of web-based applications
- queries in CSS allow developing content backend and
- can be used as a server-side to imp
- The content of the web pages can be generated using in the frontend

Quiz navigation

1	2	3	4	5	6	7	8
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Finish attempt...

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Next page

Online Exams
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Differentiate the features of 3 different models of version control systems and GIT.

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- VCSs can enable user collaboration but has a single point of failure
- GIT is a VCS, which enables and eliminates
- A contains the project and to store history and
- Version control systems are used to manage the to the source code
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- A distributed VCS supports distributed and workflows for speed and
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Question 3

Not yet answered

Marked out of 10.00

Flag question

Fill the correct word(s) in to value the use of frameworks, libraries, and plug-ins indicating their features.

NOTE: all the characters should be lowercase, no spaces at the beginning or end of the answer.

HINTS: Wordlist – api, calls, configurations, control, drives, framework, inverse of control, libraries, plugins, your code

- Plugins use to set up the behavior easily
- The framework your code, which is referred to as the
- contain code for pre-developed and tested features
- are developed and tested small application programs, to add features rapidly
- Libraries are called by providing the to your code
- is a collection of libraries, rules, structures, and control, which provides tools to manage the software development
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Online Exams

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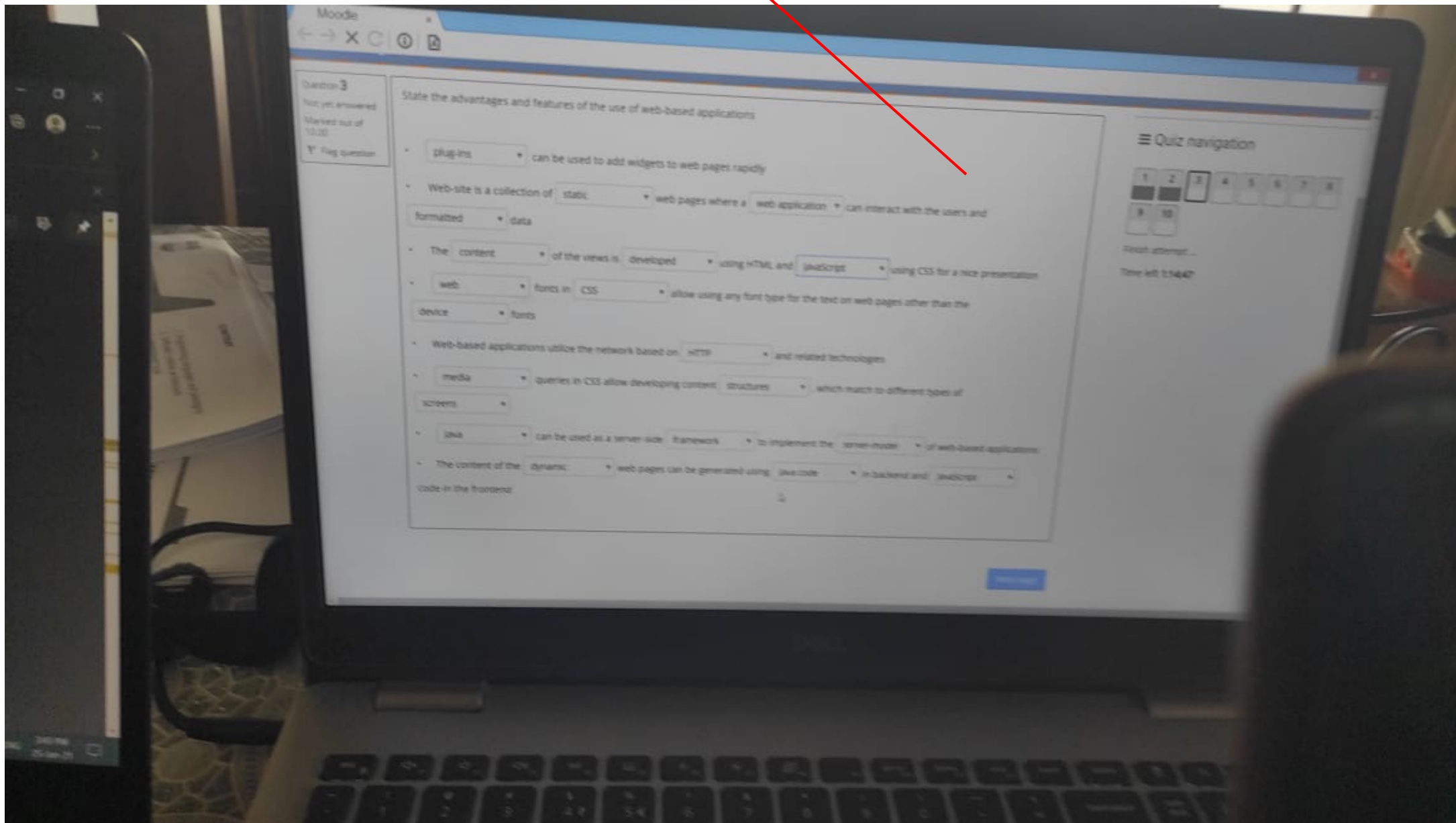
Distinguish the use of AngularJS in client-side development of Rich Web-based Applications

- Angular uses **TypeScript**, which overcomes the issues in **JavaScript** such as no **compilation**, hence difficult to find errors
- TypeScript uses **static** types and **supports** OOP, therefore, good for **large** applications development
- Angular has a **data-binding** feature, which enables automatic synchronization of data between the view and **model** components
- Dependency injection in Angular allows injecting the **components** to the **service classes**

... of the distributed systems.

- Choose... ▼ architecture extends the basic Choose... ▼ architecture by adding a Choose... ▼
- XML can be used to Choose... ▼ and transport Choose... ▼ and readable by both human and Choose... ▼
- In Choose... ▼ architecture, the Views deliver the Choose... ▼, the Model implements the Choose... ▼, and the Controllers handle the Choose... ▼
- Choose... ▼ improve the scalability of the system compared to Choose... ▼ architecture
- SOAP is Choose... ▼ -oriented, REST is Choose... ▼ -oriented, and CORBA is Choose... ▼ -oriented communication techniques/technologies
- Distributed systems use Choose... ▼ for processing, Choose... ▼ for communications, and Choose... ▼ to link them
- REST uses Choose... ▼ based data passing where SOAP uses Choose... ▼ based data passing

pre question



2

answered
out of
question

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- A contains the project and to store history and
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Quiz navigation

1 2 3 4 5
10

Finish attempt ...

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Next page

Distinguish the industry practices in software development and tools by their advantages

≡ Quiz navigation

1 2 3
9 10

Finish attempt

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- Forums are used to communicate and discuss related matters online
- runtimes provide application-level virtualization
- availability improve the loading time by distributing the content of web-based systems

- Dockers are a type of containers, which provides OS level virtualization
- Quality code increases the efficiency by unnecessary recourses elimination
- virtualization can be used to minimize the difference in development and implementation environments
- Documenting and refactoring can improve the quality of the code
- Website CDNs can be improved by distributing content closer to the visitors
- dependency management tools help to manage external artefacts like plugin
- Maven saves the dependency and libraries details in POM using XML
- VMs are used to virtualize hardware systems, similar to emulators

Fill the correct word(s) in to value the use of frameworks, libraries, and plug-ins indicating their features.

NOTE: all the characters should be lowercase, no spaces at the beginning or end of the answer.

HINTS: Wordlist – api, calls, configurations, control, drives, framework, inverse of control, libraries, plugins, your code

- Plugins use to set up the behavior easily
- The framework your code, which is referred to as the
- contain code for pre-developed and tested features
- are developed and tested small application programs, to add features rapidly
- Libraries are called by providing the to your code
- is a collection of libraries, rules, structures, and control, which provides tools to manage the software development
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1

answered

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question

Separate different program paradigms by their unique characteristics.

- Imperative programming uses a list of code without any blocks
- Non-structured programming uses different types of blocks to structure the code
- Procedures can be used to implement a single complete algorithm
- Structured programming has side-effects
- Object-oriented programming uses inheritance to show the parent-child relationship
- Event-driven programming can respond to user actions like button clicks
- Declarative programming uses functions and origins from Lambda calculus
- Functional programming code has the referential transparent property

Not yet answered

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Flag question

Construct a client-side event handler for a SAVE button (id of this button is "btnSave") of a browser-based Rich Web-based Application, using JavaScript and jQuery, to implement insert operation. This event handler sends the data using DC (AJAX) to a web service to be inserted into a database.

```
$ ( document ). on ( " click " , " #btnSave " , function ( event )  
{  
    $. ajax (   
    {  
        url : "www.bank.com/accounts/1234/transactions",  
        data : $( "#formCheckout" ). serialize ( ),  
        dataType : "text",  
        type : " post " ,  
        success : function ( data , status )  
        {  
            onCheckoutComplete( response ,responseText, status );  
        }  
    }  
    )  
});
```




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Construct a client-side event handler for a SAVE button (id of this button is "btnSave") of a browser-based JS and JQuery, to implement insert operation. This event handler sends the data using DC (AJAX) to a web s database.

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        type : " " ,  
        complete : function ( response , status )  
        {  
            onCheckoutComplete ( response , responseText , status ) ;  
        }  
    } ) ;  
} ) ;
```

Question 1

Not yet answered

Marked out of 10.00

Flag question

State the advantages and features of the use of web-based applications

- plug-ins ▼ can be used to add widgets to web pages rapidly
- Web-site is a collection of Choose... ▼ web pages where a web application ▼ can interact with the users and Choose... ▼ data
- The Choose... ▼ of the views is Choose... ▼ using HTML and Choose... ▼ using CSS for a nice presentation
- Choose... ▼ fonts in Choose... ▼ allow using any font type for the text on web pages other than the Choose... ▼ fonts
- Web-based applications utilize the network based on HTTP ▼ and related technologies
- Choose... ▼ queries in CSS allow developing content Choose... ▼ , which match to different types of Choose... ▼
- Choose... ▼ can be used as a server-side Choose... ▼ to implement the Choose... ▼ of web-based applications
- The content of the dynamic ▼ web pages can be generated using Java ▼ in backend and CSS ▼ code in the frontend

≡ Quiz navig

1 2 3
9 10

Finish attempt ...

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g question

Discuss the value of the use of web services, SOAP, and REST

- Web services are exposed via well-defined and ☒ **standardized** APIs providing ☒ **encapsulated** integration
- Different types of clients like ☒ **web base** browser-based clients and mobile apps can communicate with web services via the ☒ **APIs**
- Web services provide ☒ **dynamic** integration opposed to the ☒ **static** integration of the web applications
- The capability of the web services is more than the web applications
- SOAP supports both message oriented and ☒ **procedure** functional oriented communication
- ☒ **WSDL** is used to describe the API of the services using the standard format using XML
- uses on Java when developing SOAP web services.
- REST uses to depict , which are by URIs
- The interfaces of REST web services are based on the URL and .

Quiz n



Finish attempt

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SERVICES

Previous

Next

- Web services are server-side applications, which provides a related set of features
 - The services of the web service are exposed via an API
 - modular, well-defined, **encapsulated** interfaces are used for loosely coupled integration between systems
 - Loosely coupled architecture, and interacts with client-side components via the API
 - Multiple types of clients can communicate with the web-service via the API
 - Browser-based clients, non-browser-based clients (mobile apps), other web services



Online Exams

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Design a REST API for a RESTful web service to be used by a media player on

NOTE: HTTP verbs are all caps, URL segments are all lower case, and names

- Load the song ABC ✓

GET : www.player.com/ songs /ABC

- Edit the song ABC's singer

PUT : www.player.com/songs/ABC/meta/ singer

Patch

- Upload songs to the album XYZ ✓

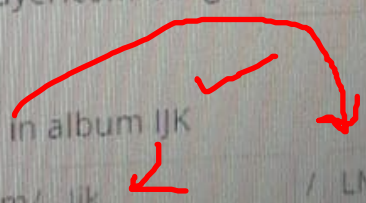
POST : www.player.com/ albumS /XYZ

- Remove the song ABC ✓

DELETE : www.player.com/songs/ ABC

- Load the song LMN in album IJK

GET: www.player.com/ ijk / LMN





Online Exams

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Online Exams

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