

# **Document Audit Management**

**UIT1511---Software Design Lab**

## **A PROJECT REPORT**

*Submitted by*

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- 2. Anmol Gupta (205002010)**
- 3. Antony Rajesh A (205002011)**
- 4. Anush Rajagopalan (205002012)**
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**SSN COLLEGE OF ENGINEERING,  
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**AUGUST 2022**

## 1. Abstract of the project

### **Problem description:**

*Brivas Private limited*, our client, wants a system to make their auditing task easier. The site should have two major kinds of user. The admin users and the subcontractor users. In the subcontractor should be able to upload appropriate work documents with restriction imposed on the number of days the contractor can upload necessary documents. The admin can view and manage the subcontractors registered to the site and will also be able to view the documents they upload. The system should be comprehensive and such that the admin user can easily track and visualize the progress of subcontractors work, documents and certificates.

## 2. Requirements Specification of the project

Sprint #	Epic	User Story #	Requirement / User Story	Essential or Desirable	Description of the Requirement	Remarks
1	Registration of users using user management	admin	The required number of sub-contractors and auditors will be registered by admin under pre-registered admin.	Essential	User Details like email, name, username, password, role of the user (like auditor /sub-contractor), contact number	Admin can create user logins for sub-contractors and auditors which authenticates users to their respective account
1	Login page	admin	The admin must be able to view his/her dashboard when the admin is logged in.	Essential	The dashboard will contain act master, event management,	When logged in, a session gets created for the admin page.

			The admin username and password are pre-registered.		and user management.	
1	Login page	auditor	The admin must be able to redirect to view his/her assigned events.	Essential	The dashboard will contain an event list , details, and log out	When logged in, a session gets created for the auditor
1	Login page	Sub-contractor	The Subcontractor must be able to redirect to view his/her assigned events with deadlines and a document submission page.	Essential	The dashboard will contain event list , details, and log out	When logged in, a session gets created for the Subcontractor.
1	Logged-out	Admin, Auditor, Sub-contractor	Logged out should redirect the user to the login page	Essential	Common logged out to any type of users	The session gets destroyed.
1	Generation of acts	admin	The admin can view a list of acts and can add acts for current law.	Essential	The admin should be redirected to the registration of acts page to create	Act name, short name, and description are added and stored in the act

					acts. admin should not be able to delete the acts	master. And later, allocated to a sub-contractor while creating events
2	Event Management	admin	The admin can create events for sub-contractors and view registered events.	Essential	The admin should be able to define the deadline time and date for sub-contractors.	-
2	Displaying associated events	auditor	The auditor can view the events assigned by the admin in the auditor page	Essential	The auditor should be able to add remarks to the documents uploaded by the sub-contractor under the assigned events	Display associated events is for auditor
3	Event Viewing by Sub-contractor	Sub-contractor	The sub-contractor should be able to view events assigned for him/her with a specified deadline created by admin	Essential	This page is restricted to sub-contractor.	The event view page is only for sub-contractor

3	Document Uploading by Sub-contractor	Sub-contractor	Documents which is required for corresponding events should be uploaded under the event assigned for the sub-contractor.	Essential	According to the acts, the events are assigned to sub-contractors. The documents for that events should be uploaded	This uploading page can not be modified by the auditor or admin
3	Basic settings	admin	Settings to Alter details, Permissions and Time restrictions set on uploading documents and other user features.	Desirable	From the Admin side set upon Sub-contractor and Auditor Controls	Only admin can use it
3	Document Viewing by Auditor	Auditor	Auditor needs a page to view the documents uploaded by a subcontractor in an event	Essential	The documents uploaded by subcontractor to an event can be viewed by the auditor. He/she should be able to make observations to each submission	Auditor and Admin can view this event

4(mode l lab)	View Profile	Admin, Auditor, Sub- contracto r	To view details of the currently logged in user to convenience	Desirabl e	Displays profile details including last login and joined date for the currently logged in user	Any logged in user can view
4(mode l lab)	Mail to send User Credentials	Admin	Since the admin is responsible for creating users, once a new user has been created , a mail is composed and sent to the mail id of new user	Essential	A mail is composed with only the username and password to the user	Only Admin can create new users
4(mode l lab)	Mail to alert creation of new event	Auditor	Since the subcontracto r cannot participate until he/she is a part of an event , they are notified	Essential	A mail to alert subcontracto rs about creation of event and their auditor name	Only Admin can create events
4(mode l lab)	Mail to warn subcontract or	Auditor	In case of an approaching deadline, an auditor is allowed to send mail to subcontracto r to adhere to deadlines	Desirabl e	A simple warning mail is sent to the subcontracto rs mail ID	Only Auditors can send warnings

### 3. Implementation and Risk Management

Name and Register number of the student: Anirudh K & 205002009

Role in the project: Front-end, Back-end developer

#### a. Implementation

<b>Sprint #</b>	<b>Epic</b>	<b>User Story #</b>	<b>Requirement / User Story</b>	<b>Remarks on implementation</b>
<b>RS2</b>	<b>Employee's Pages</b>	<b>6</b>	<b>Event Management</b>	<b>Created a page where the admin can add new events for the sub-contractor with specified deadlines and connected them with using the Django framework.</b>
		<b>7</b>	<b>Sub-Contractor Home Page</b>	<b>Developed a page to View, and upload to Events uploading and remarks by the Auditor using Django framework and HTML-Bootstrap.</b>
		<b>8</b>	<b>Auditor Home Page</b>	<b>Developed a page to View documents uploaded by the Sub-Contractor and Add remarks to that specific Event</b>
<b>RS3</b>	<b>Settings</b>	<b>4</b>	<b>Module Rights</b>	<b>Restricting the Act allocation and Sub Contractor- auditor allocation for corresponding employees</b>
<b>RS4</b>	<b>Email Features</b>	<b>1,6,8</b>	<b>For alerts and credentials</b>	<b>SMTP protocol is used to send messages that are required , desirable</b>

<b>RS1</b>	<b>Database/Models</b>	<b>1</b>	<b>User model</b>	<b>Creation of user model with required fields. Two proxy models for auditor and subcontractors were made</b>
		<b>5</b>	<b>Act master model &amp; Event model</b>	<b>Tables for storing acts and events.</b>
		<b>6</b>	<b>Act JSON in event model</b>	<b>Storing Acts as JSON to allow uniqueness in acts for each event</b>
		<b>7</b>	<b>Uploading File model</b>	<b>This table stores the actname,document and is linked to its associated event</b>

**a. Risk Management**

<b>Ris k #</b>	<b>Risk Descriptio n</b>	<b>Probabilit y</b>	<b>Impac t</b>	<b>Mitigatio n Plan</b>
<b>1</b>	<b>Cross Site request Forgery attacks</b>	<b>90%</b>	<b>A successful CSRF attack can be devastating for both the business and user. It can result in damaged client relationships, unauthorized fund transfers, changed passwords</b>	<b>Include CSRF token in HTML forms as and when necessary.</b>



			and data theft—including stolen session cookies.	
2.	Password being accessible to hackers in database	80%	Loss of Data, Files and confidential information about the firm.	Used PostgreSQL , which uses hash to encode the password.
3	Documents with malware	5%	Loss of Data, Files and confidential information about the firm.	Admin can restrict the file type used to upload to the site

**Name and Register number of the student: Anmol Gupta & 205002010**

**Role in the project: Front-end Designer for static pages.**

**a. Implementation**

<b>Sprint #</b>	<b>Epic</b>	<b>User Story #</b>	<b>Requirement / User Story</b>	<b>Remarks on implementation</b>
<b>RS1</b>	<b>Login</b>	<b>1</b>	<b>Display Login Page</b>	<b>Designed the dashboard for the admin page using HTML and CSS styling.</b>

		2	View Other logins using User Management	Designed a redirect page to see created users done by the admin using HTML and CSS.
RS2	Employee's pages	5	Act Master	Created a separate page for the admin side to create new acts and display the number of acts and its description to the admin to assign events to sub-contractors using HTML.

**Name and Register number of the student: Antony Rajesh A & 205002011**

**Role in the project: Front-end Designer for static pages.**

**a. Implementation**

<b>Sprint #</b>	<b>Epic</b>	<b>User Story #</b>	<b>Requirement / User Story</b>	<b>Remarks on implementation</b>
RS1	Login	1	Display Login Page	Designed the home page, top menu, and dashboard for the admin page using HTML and CSS styling. And also created the entry home page and contact us page using a tool called nicepage for automated decoration.
		2	View Other logins using User Management	Designed a redirect page to see created users done by the admin using HTML and CSS.

<b>RS2</b>	<b>Employee's Pages</b>	<b>4</b>	<b>Act Master</b>	<b>Created a separate page for the admin side for acts using HTML and CSS.</b>
		<b>5</b>	<b>Add Act</b>	<b>Created a separate page for the admin side to create new acts and display the number of acts and its description to the admin to assign events to sub-contractors using HTML and CSS</b>

**a. Risk Management**

<b>Risk #</b>	<b>Risk Description</b>	<b>Probability</b>	<b>Impact</b>	<b>Mitigation Plan</b>
<b>1</b>	<b>Developed dashboard page's CSS styles we are not working under django framework. So with the help of Bootstrap, we are able to rectify it</b>	<b>50%</b>	<b>Due to this, we are unable to update the forthcoming pages.</b>	<b>Bootstrap is the alternative for styles in HTML pages. So, we used bootstrap in developed HTML pages.</b>
<b>2.</b>	<b>Exporting images to pre-</b>	<b>60%</b>	<b>We have created static</b>	<b>Separate folder should be created for</b>

	designed pages are not working.		folder to store the required images which are meant to be exported to templates.	image export in django framework.
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**Name and Register number of the student: Anush Rajagopalan & 205002012**

**Role in the project: Front-end, Back-end developer**

**a. Implementation**

<b>Sprint #</b>	<b>Epic</b>	<b>User Story #</b>	<b>Requirement / User Story</b>	<b>Remarks on implementation</b>
<b>RS1</b>	<b>Login</b>	<b>1</b>	<b>Display Login Page</b>	<b>Developed a Login page and connected it with the database with help of Django.</b>
		<b>2</b>	<b>View Other logins using User Management</b>	<b>Designed a redirect page to see created users done by the admin.</b>
		<b>3</b>	<b>Create Other logins using User management on the Admin Side</b>	<b>Developed a create a new user page for storing the details of the auditor and sub-contractor for whom we have to create new accounts for event uploading etc. and connected it with the database using Django</b>
<b>RS2</b>	<b>Employee's Pages</b>	<b>4</b>	<b>Act Master</b>	<b>Created a separate page for the admin side for acts.</b>

		5	Add Act	Created a separate page for the admin side to create new acts and display the number of acts and its description to admin to assign events to sub-contractors using HTML and CSS and connected it with the database to receive every act stored in it.
		6	Event Management	Created a page where the admin can add new events for the sub-contractor with specified deadlines and connected them with using the Django framework.

**a. Risk Management**

Risk #	Risk Description	Probability	Impact	Mitigation Plan
3	Wrongly allocated Acts to Events	Medium	The subcontractor might end up uploading the wrong document which may lead to the admin issuing certificate for incomplete work.	Subcontractor is equally responsible for being aware of the required documents to be uploaded. Therefore, they are allowed to request change of acts to the admin.
4.	Auditors are able to access and manipulate events that are not	Low	The one to one relationship between allotted auditor and subcontractor is broken and inaccurate	Auditors should communicate with the admin to ensure they events are not clashing on their part . Additional

	<b>allocated to them</b>		<b>changes could be made</b>	<b>measures are taken to ensure that an allocated subcontractor who is active cannot be reallocated.</b>
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**Name and Register number of the student: S Guhan & 205002034**

**Role in the project: Front-end, Back-end developer**

**a. Implementation**

<b>Sprint #</b>	<b>Epic</b>	<b>User Story #</b>	<b>Requirement / User Story</b>	<b>Remarks on implementation</b>
<b>RS1</b>	<b>Employee's Pages</b>	<b>1</b>	<b>Sub-Contractor Home Page</b>	<b>Developed a page to Add, View, and review Events uploading and remarks by the Auditor using Django framework and HTML-Bootstrap.</b>
<b>RS3</b>	<b>Settings</b>	<b>9</b>	<b>Basic settings</b>	<b>Developed a settings options to alter any information regarding users, acts, and events.</b>

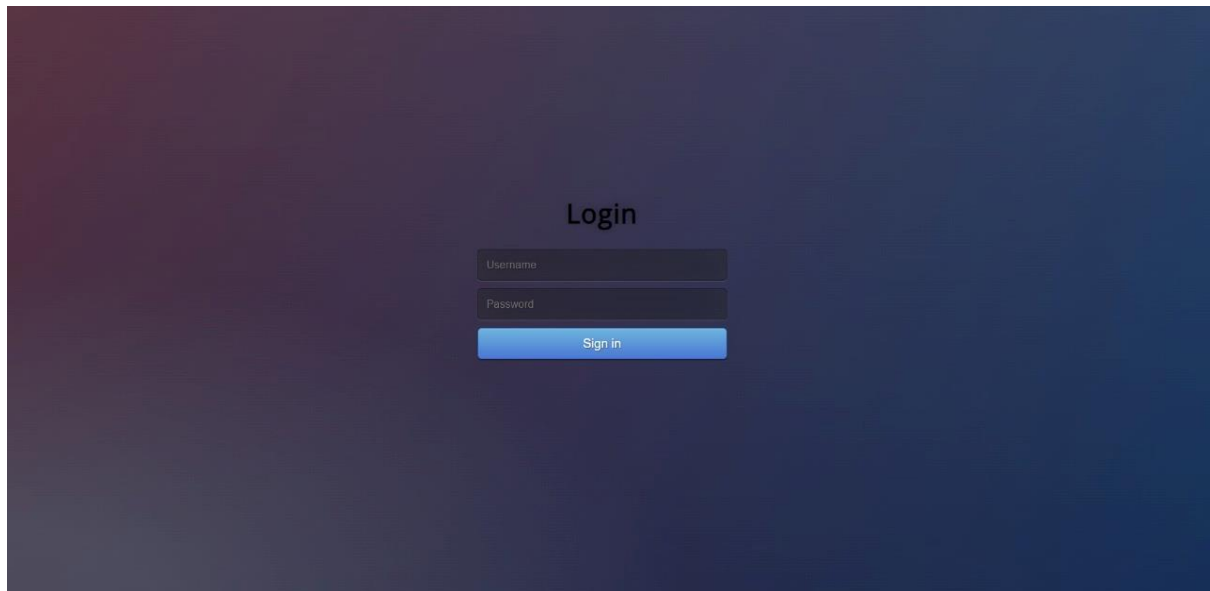
**c. Risk Management**

<b>Risk #</b>	<b>Risk Description</b>	<b>Probability</b>	<b>Impact</b>	<b>Mitigation Plan</b>
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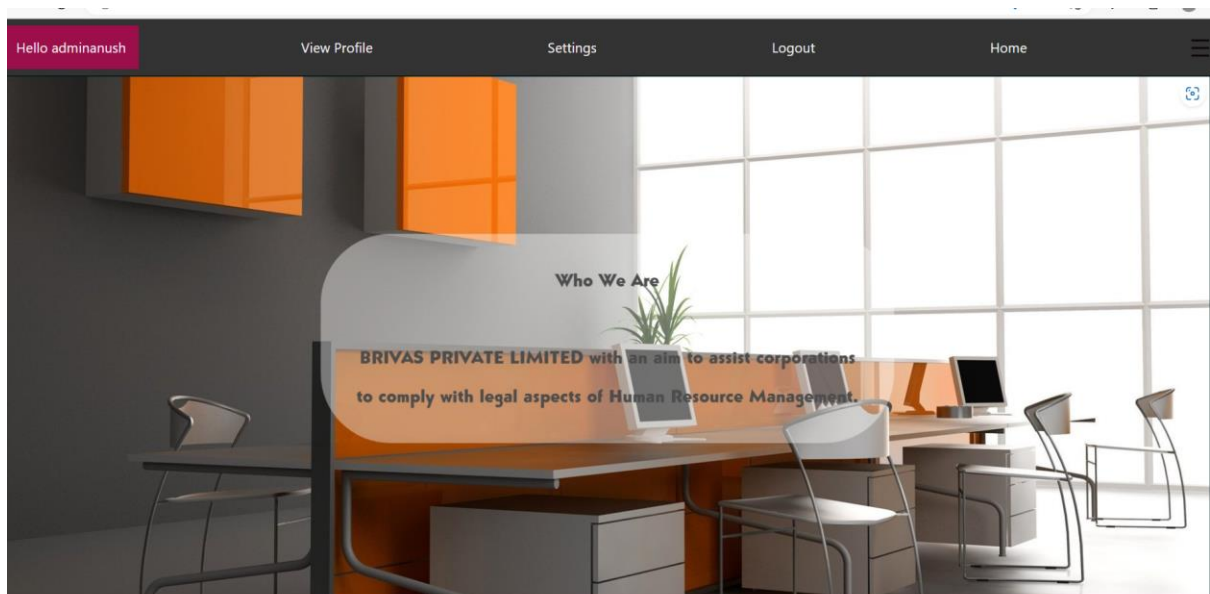
5.	Sql injection Attacks	50%	It can lead to data theft, data loss, loss of data integrity, denial of service, as well as full system compromise	Restricting raw SQL queries only by using django ORM.
6.	Sensitive data exposure		Data breaches are possible through various techniques and give malicious actors access to secured data. These assaults may involve malware infections, internal security breaches, brute-force attacks, phishing, and password exploitation	Code to ensure HTTPS is used  Settings SECURE-OSL, REDIRECT=TRUE  SESSION - COOKIE=TRUE  CSRF-COOKIE-SECURE

## RESULTS:

### Login in page:



### Home page:





## Create new user page:

Hello adminanush

SettingsLogoutHome

[View Users List](#)

## Create New Account

Fill up to create a new user

Email

Enter Email

First Name

first name

Last Name

last name

User Name

user name

Last Name

last name

User Name

user name

Password

Enter Password

Repeat Password

Repeat Password

User Type

Auditor

Contact Number

Contact number

Sign Up



Start typing to filter...

Groups

WELCOME@PG

Acts

Auditors

Events

Subcontractors

Users

Username:

rach

Required: 150 characters or fewer. Letters, digits and @/./+/-/\_ only.

First name:

rachel

Last name:

zane

Email address:

rachel@gmail.com

☐ Staff status

Designates whether the user can log into this admin site.

☒ Active

Designates whether this user should be treated as active. Unselect this instead of deleting accounts.

Date joined:

Date:

2022-12-09

Today

Time:

16:21:48

Now

Note: You are 5.5 hours ahead of server time.

Contact number:

9840696900

No sub:

Role:

Subcontractor

Delete

Save and add another

Save and continue editing

SAVE

**View User details:**

Hello adminanush

View Profile

Settings

Logout

Home

Add New User

Edit Users

List of Users

ID	User Name	First Name	Last Name	Email	Contact Number	Type of User	Available subcontractors to be assigned
3	rach	rachel	zane	rachel@gmail.com	9840696900	Subcontractor	None
2	harvey	harvey	specter	harvey@gmail.com	9999999999	Auditor	10
4	antony	antony	rajesh	antony@ssn.edu.in	9878987898	Auditor	10
5	guhan	guhan	sivasiva	guhan@ssn.edu.in	8976787878	Subcontractor	None
1	adminanush			anush2010829@ssn.edu.in	None	Admin	None

## Register Acts page:

[View Acts](#)

### Register Your Acts

Please fill in this form to create Acts

## Act Master page:

Hello adminanush		<a href="#">View Profile</a>	<a href="#">Settings</a>	<a href="#">Logout</a>	<a href="#">Home</a>	
<div><a href="#">Add New Act</a></div> <div><b>List of Acts</b></div>						
ID	Act Name	Act Description	Act Short Name			
1	The Contract Labour Act 1970	An Act to regulate the employment of contract labour in certain establishments and to provide for its abolition in certain circumstances and for matters connected therewith. 1. Short title, extent, commencement and application. —(1) This Act may be called the Contract Labour (Regulation and Abolition) Act, 1970.	TCL			
3	Madras Compulsory Labour Act	The Madras Compulstury Labour Ao6, 1858 " was given by tho Repoailllg ancl Amending Act, 1901 (Central Act XI of 1901). This Act was declared by the Laws Local Extollt Act, 1874 (Central Act XV of 1874).	MA			
4	Migrant Act	Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979. Long Title: An Act to regulate the employment of inter-State migrant workmen and to provide for their conditions of service and for matters connected therewith.	MGA			
5	Factories Act	The Factories Act, 1948, as amended by the Factories Act, 1987, served to assist in formulating national policies in India with respect to occupational safety and health in factories and docks in India. It deals with various problems concerning safety, health, efficiency and well-being of the persons at work places.	FA			

Create your events:

Hello adminanush

View Profile

Settings

Logout

Home

Create Your Events

Factory related event

Select Auditor:

harvey

Select Contractor:

rach

rach

guhan

List of Acts

Act Name	Act Short Name	Select Act
The Contract Labour Act 1970	TCL	<input type="checkbox"/>
Madras Compulsory Labour Act	MA	<input type="checkbox"/>
Migrant Act	MGA	<input type="checkbox"/>
Factories Act	FA	<input checked="" type="checkbox"/>

Select Auditor:

harvey

Select Contractor:

rach

List of Acts

Act Name	Act Short Name	Select Act
The Contract Labour Act 1970	TCL	<input type="checkbox"/>
	MA	<input type="checkbox"/>
	MGA	<input type="checkbox"/>
	FA	<input checked="" type="checkbox"/>

< December 2022 >

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Set Deadline Time:

Create Event

Select Auditor:

harvey

Select Contractor:

rach

List of Acts

Act Name
The Contract Labour Act 1970
Madras Compulsory Labour Act
Migrant Act
Factories Act

Set Deadline Date:

Set Deadline Time:

Create Event

8:56<sup>AM</sup>  
PM

11

12

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CancelOk

Select Act

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>

## Basic settings:

Django administration

WELCOME: ADMINANUSH [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Site administration

AUTHENTICATION AND AUTHORIZATION

Groups

+ Add

Change

WELCOME/PG

Acts

+ Add

Change

Auditors

+ Add

Change

Events

+ Add

Change

Subcontractors

+ Add

Change

Users

+ Add

Change

Recent actions

My actions

TCL

Act

## Auditor event page for a subcontractor:

Hello a1

Settings

Logout

Home

Details

EVENT: a1 - s1

SUBCONTRACTOR: s1

DEADLINE: Dec. 15, 2022, 6 p.m.

SEND WARNING

#	Act Name	Upload Status	Document	Observation
	Migrant Act	True	<a href="#">CV_Anirudh_K.pdf</a>	
	Madras Compulstry Labour Act	False		

## Subcontractor event / document uploading page:

Hello s1

Settings

Logout

Home

EVENT : a1 - s1

Upload acts

Madras Comp

Choose File

No file chosen

File Upload

#	Act Name	Upload Status	Document	Observation
	Migrant Act	True	<a href="#">CV_Anirudh_K.pdf</a>	Needs to be Updated.
	Madras Compulstry Labour Act	False		Need to be uploaded

## CLIENT EVALUATION REPORT

**Name of the project:** Document Audit Management

**Team Members:**

- 1.Anirudh K (205002009)
- 2.Anmol Gupta (205002010)
- 3.Antony Rajesh A(205002011)
- 4.Anush Rajagopalan(205002012)
- 5.Guhan S (205002034)

**Client details:**

**Rating System - 1: Strongly disagree 2: Disagree 3: Neutral 4: Agree 5: Strongly Agree**

Questions	1	2	3	4	5
The problem was well discussed and, the requirements and goals were clear.					✓
The project plan was well-defined and communicated from the start.					✓
The resources were adequate for achieving the goals.				✓	
The original timeline was realistic and followed.				✓	
The teamwork was well demonstrated.			✓		



<b>The client was communicated at regular intervals and given updates on the progress of the project.</b>				✓	
<b>The expected project requirements have been satisfied.</b>				✓	