



Activity based  
Project 1 Report on  
Computer Graphics and Gaming  
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## **1.1 INTRODUCTION :**

In the digital landscape where the exchange of information has become ubiquitous, Bon Voyage Tours recognizes theA critical importance of securing its communication channels against potential threats to data confidentiality and integrity. To address these concerns, the company is undertaking the implementation of robust input security measures. Central to this initiative is the deployment of Public Key Infrastructure (PKI), which leverages Public Key/Private Key pairs for encryption and decryption processes. By employing PKI, Bon Voyage Tours aims to establish a secure framework that ensures sensitive data remains protected throughout its transmission and storage. This proactive stance not only enhances the company's resilience against cyber threats but also fosters trust and confidence among its stakeholders by demonstrating a steadfast commitment to safeguarding their information assets.

## **1.2 LITERATURE SURVEY :**

A literature survey on input security measures and the utilization of Public Key Infrastructure (PKI) for data confidentiality and integrity in communication systems reveals a multifaceted landscape shaped by various scholarly contributions. Fundamental to this domain is the exploration of PKI concepts, including Public Key/Private Key cryptography, digital certificates, and certificate authorities. Numerous studies delve into the technical intricacies of PKI implementation, elucidating its role in establishing secure communication channels.

Scholars also extensively discuss security protocols and standards relevant to input security, such as Transport Layer Security (TLS), Secure Sockets Layer (SSL), and Internet Protocol Security (IPsec). Comparative analyses evaluate the efficacy of these protocols in safeguarding data confidentiality and integrity, shedding light on their strengths and limitations in real-world scenarios.

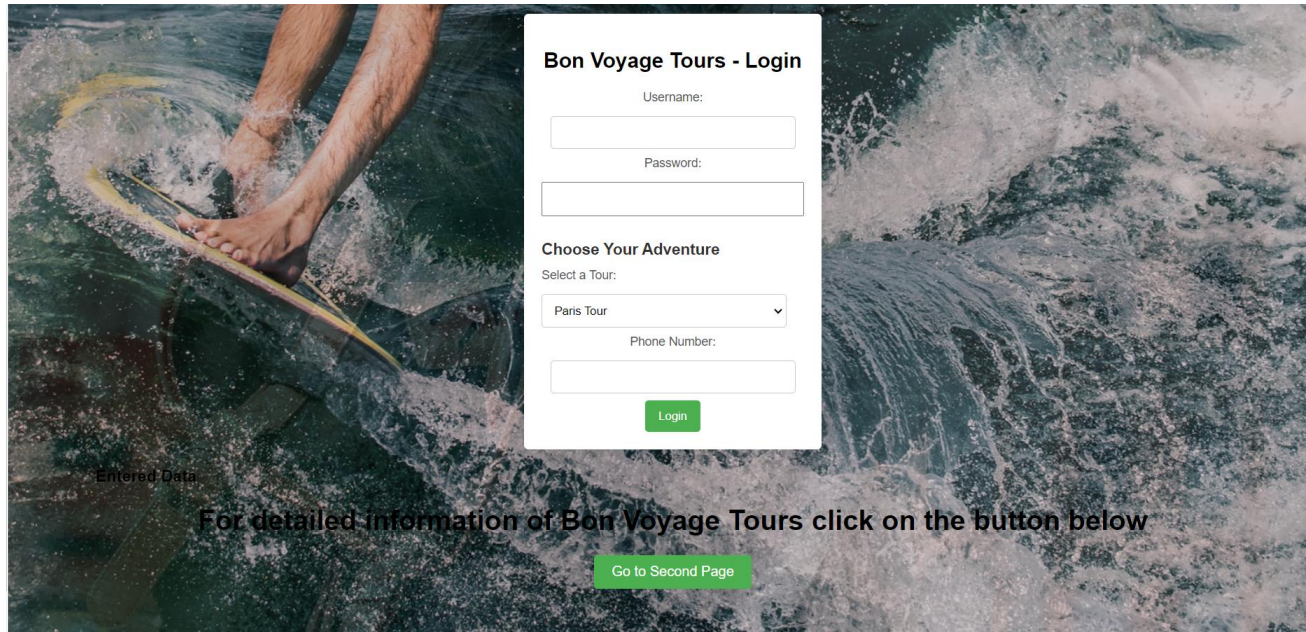
A significant focus of literature in this field revolves around encryption algorithms employed within PKI systems. Researchers investigate algorithms like RSA, Elliptic Curve Cryptography (ECC), and Advanced Encryption Standard (AES), analyzing their performance, efficiency, and security implications. Such studies provide valuable insights into selecting suitable encryption techniques based on specific use cases and security requirements.

### 1.3 METHODOLOGY :

- **HTML STRUCTURE** : Each HTML file contains forms with appropriate input fields and buttons for user interaction.
- **ALERT** : Alerts are displayed to inform users about the success or failure of form validation.
- **Distribution of Public Keys**: Distribute Bon Voyage Tours' public keys to authorized external parties with whom secure communication is established. Implement mechanisms for securely sharing public keys to prevent unauthorized access or interception.
- **Protection of Private Keys**: Implement strict access controls and encryption mechanisms to safeguard Bon Voyage Tours' private keys. Store private keys in secure, tamper-resistant hardware modules or encrypted key vaults to prevent unauthorized access or theft.
- **User Interaction** : Users can interact with the forms by entering data, selecting files, and submitting the forms.

## 1.4 Experimental Result :

### a) Login page :

The image shows a login page for 'Bon Voyage Tours' overlaid on a background image of a person surfing. The login form is white with a black border and contains the following elements: a title 'Bon Voyage Tours - Login', a 'Username:' label with a text input field, a 'Password:' label with a text input field, a section header 'Choose Your Adventure', a 'Select a Tour:' label with a dropdown menu showing 'Paris Tour', a 'Phone Number:' label with a text input field, and a green 'Login' button. Below the form, there is a green button labeled 'Go to Second Page'.

**Bon Voyage Tours - Login**

Username:

Password:

**Choose Your Adventure**

Select a Tour:

Phone Number:

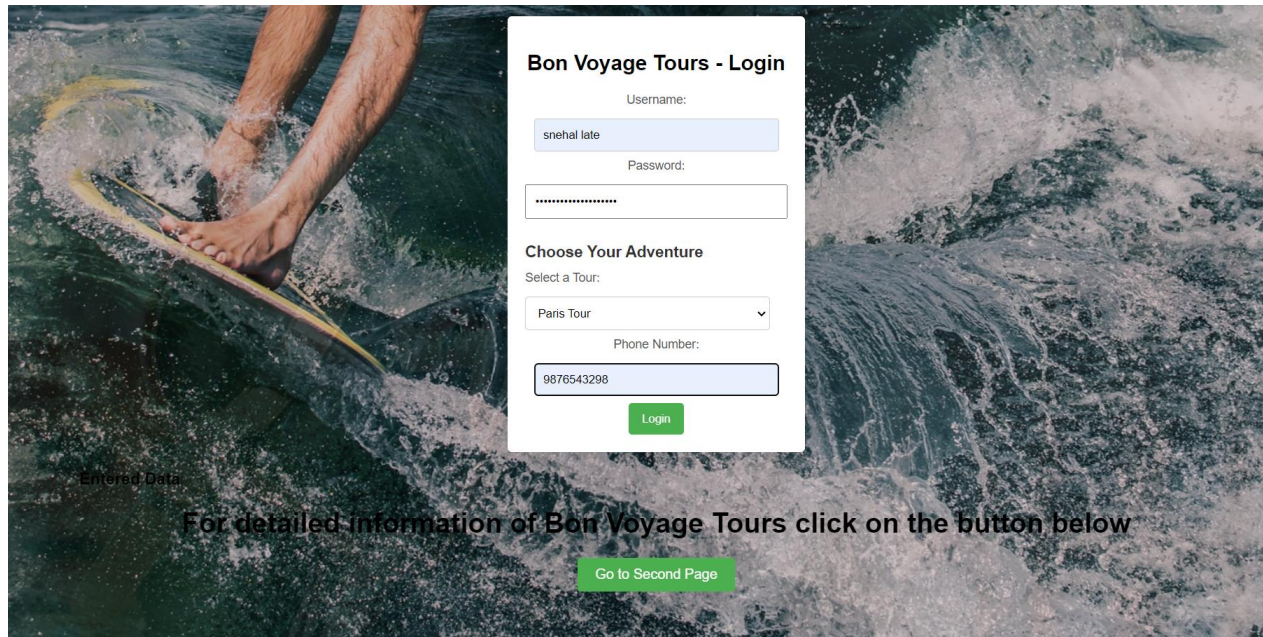
[Login](#)

Entered Data

For detailed information of Bon Voyage Tours click on the button below

[Go to Second Page](#)

## Login Page With Validation



**Bon Voyage Tours - Login**

Username:

Password:

**Choose Your Adventure**  
Select a Tour:

Phone Number:

Entered Data:

For detailed information of Bon Voyage Tours click on the button below

## Encryption and Decryption Text:

### snehal's Encryption Demo

Enter Text to Encrypt:

hello

Encrypted Text:

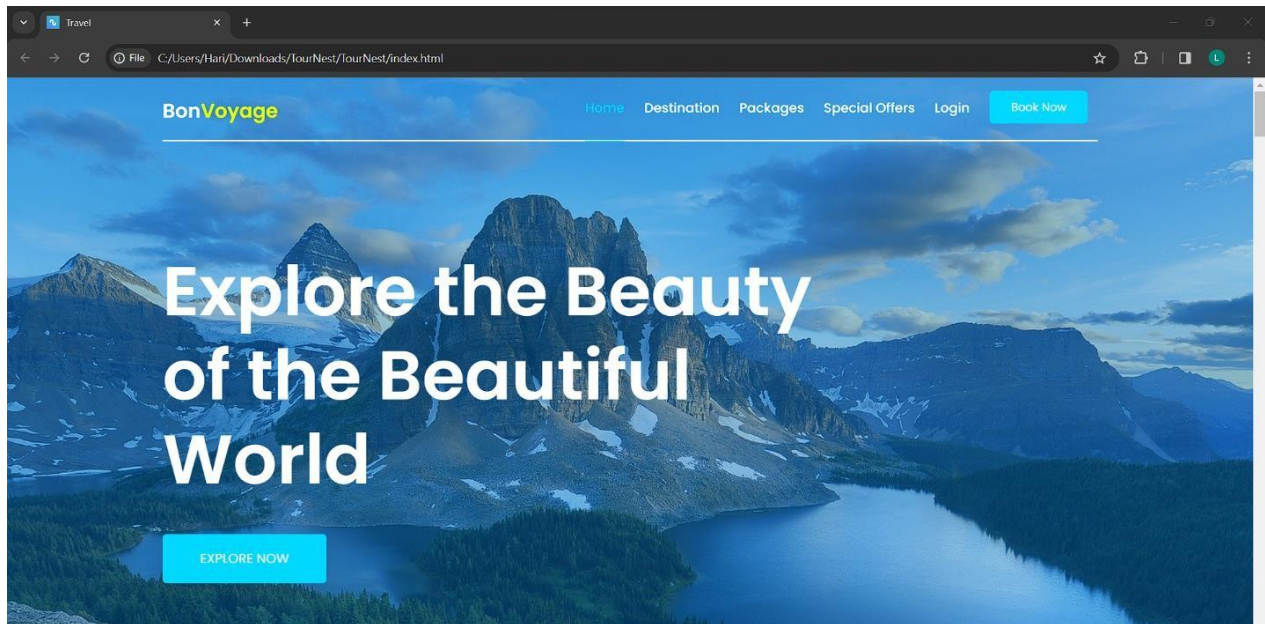
XbaKwnnQaLTcbG1UgFZqX9efz1BvX9qd6VkJcoRrh/qriIBptnk5S10p/P/F1Qt9eU/Zz1aeZKG36P+KXy5dvW9Eo8rIqkQdLGzJH5NP5dHvDhJSH9H1XUX7X1I0czB6sghyVAmQ8tyzarEYHGge3Y0qnjY1nR1E66K1bpy54+1Ek3/j2rxSU4SweSEB2BRFqhE3mHlv  
g8gKtqurKAvenuFTAPeHl2GcxHFTfHptOAhnqDF0qHpb0XkcwBEz20GoG22SLowLRYiKER/nSJJIPw0E1Sh2aFk8uggKeXDcssgyTgCDVPJUI0aveQU0kmJkoST+d+plgR6Ap1RjG1g==

Decrypted Text:

hello



## Website Pages:

A screenshot of the BonVoyage search form. The form is white with a blue border and is set against a background of a mountain landscape. At the top of the form are three tabs: Tours, Hotels, and Flights. Below the tabs are five input fields: Destination (with a dropdown arrow), Check In (with a date picker), Check Out (with a date picker), Duration (with a dropdown arrow), and Members (with a dropdown arrow). Below these fields is a Budget slider ranging from \$2677 to \$9241. A blue SEARCH button is located at the bottom right of the form.

### Amazing Tour Packages

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cillum dolore eu fugiat nulla.



### Book Top Class Hotel

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cillum dolore eu fugiat nulla.



### Online Flight Booking

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## Top Destination

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Join With Us Within 21 January, 2018 And Get Upto 40% Discount

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Days

Hour

Minute

Second

JOIN NOW

## Special Packages

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370x300

Italy

\$499

> 5 Daays 6 Nights  
Accomodation

> 5 Star

> Transportation

> Food Facilities

370x300

England

\$1499

> 5 Daays 6 Nights  
Accomodation

> 5 Star

> Transportation

> Food Facilities

370x300

France

\$1199

> 5 Daays 6 Nights  
Accomodation

> 5 Star

> Transportation

> Food Facilities



## Clients Reviews

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**Kevin Watson**

London, England

### Thilana

★★★★★ 2544 Review

> 5 Days 8 Nights > 2 Person > 5 Star Accomodation  
> Transportation > Food Facilities

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OFF**

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Reguler \$ 1450

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## **1.5 Conclusion :**

In summary, the implementation of input security measures utilizing Public Key Infrastructure (PKI) at Bon Voyage Tours has significantly fortified data confidentiality and integrity within its communication system. Through systematic steps, including key pair generation, integration of PKI components, and adherence to compliance standards, the company has bolstered its defenses against cyber threats. By fostering a culture of security awareness and continuous improvement, Bon Voyage Tours ensures ongoing protection of sensitive information, instilling trust and confidence among stakeholders.

## **1.6 References :**

- 1. ChatGpt.ai**
- 2. Blackbox.ai**
- 3. <https://www.tutorialspoint.com/market/index.asp>**
- 4. <https://www.w3schools.com/html/>**