

# **Front End Engineering - II**

**Project Report**  
**Semester - IV (Batch - 2022)**

**TITLE :IMAGE GALLERY USING  
BOOTSTRAP**



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# **1. INTRODUCTION**

## **1.1 BACKGROUND**

Image gallery project aims to create a platform or application where users can view, and manage images. It can be designed for personal use, within an organization, or as a public service. The project aims to create a platform or application where users can upload, view, and manage images. It can be designed for personal use, within an organization, or as a public service. Users might need an easy way to store and retrieve images, share them with others, or display them in an aesthetically pleasing manner. We may require features such as borders and viewing the image in fullscreen. Gallery View can be designed as a grid of thumbnails that users can click to expand.

## **1.2 OBJECTIVE**

The objective of an image gallery project typically revolves around several key goals aimed at enhancing the way images are stored, viewed, and managed. It helps to organize and store images in a manner that makes them easy to access, manage, and retrieve and Provide capabilities for different users to upload, categorize, and manage their images effectively, often including personal and shared galleries. It helps ensure that users can easily view and interact with images through a user-friendly interface. It designs the gallery to be accessible across various devices and platforms, maintaining a responsive and adaptive design. The overall objective is to create a robust, secure, and user-friendly image gallery that meets the needs of its users, whether they are individuals looking to store personal photos or organizations managing vast digital asset libraries. This should provide a comprehensive platform for all image-related activities, from simple viewing to complex management and integration.

## **1.3 SIGNIFICANCE**

An image gallery project holds significant value across various dimensions, ranging from technical innovation to user engagement and business impact. It Provides a centralized location for storing and managing images, which simplifies access and organization, crucial for both individuals and organizations. It enhances the ability to quickly find and retrieve images through categorization, tagging, and search functionalities, saving time and reducing frustration. An image gallery that is well-designed offers a visually appealing way to browse through images, which can enhance user satisfaction and engagement. Image galleries on social platforms allow users to share experiences and stories visually, fostering community spirit and personal connections. The impact of an image gallery project extends far beyond just storing and viewing images. It encompasses improving operational efficiencies, enhancing user experiences, enabling better marketing strategies, and contributing to cultural and educational advancements. Each of these factors underscores the significance of

developing and implementing a robust image gallery solution tailored to the needs of its users.

## **1.4 SCOPE OF THE PROJECT**

The scope of an image gallery project defines what the project will deliver and outlines the boundaries of the project's development and deployment. Primarily, the project will involve the development and deployment of a web-based gallery that allows users to upload, store, categorize, and view images. This includes creating a secure login system to ensure that access is controlled and that user data is protected. Features such as search functionality, tags, and filters will be integrated to facilitate easy navigation and organization of the image content, enhancing the user experience. Image galleries often integrate with new technologies like augmented reality (AR) and virtual reality (VR), providing more immersive experiences and opening up new possibilities for interaction. Additionally, the project will include the implementation of responsive design principles to ensure that the gallery is accessible across multiple devices and screen sizes, including smartphones, tablets, and desktop computers. Developing an image gallery can drive innovation in areas such as image recognition, automated tagging, and AI-driven image analysis, pushing forward the boundaries of what can be automated and analyzed in image data. By defining these elements clearly at the outset of the project, stakeholders have a clear understanding of what the project will deliver, the resources required, and the timeline for completion. This helps in managing expectations and ensures efficient use of resources throughout the project lifecycle.

## **2. PROBLEM DEFINITION& REQUIREMENTS**

### **1.PROBLEM STATEMENT**

In today's digital age, the proliferation of digital images across various platforms and devices has led to a pressing need for efficient and user-friendly image management solutions. Despite the abundance of digital image content, many users encounter challenges in organizing, accessing, and sharing their images effectively. Existing image management tools often lack the versatility, scalability, and user experience required to meet the diverse needs of users across different contexts. Therefore, the objective of this project is to develop a comprehensive and intuitive image gallery platform that addresses the shortcomings of existing solutions and provides users with a seamless and enjoyable image management and viewing experience. The project aims to tackle many key issues such as Many users struggle to organize and manage their growing collections of digital images, leading to cluttered and inefficient image libraries. Existing image management tools often lack robust sharing and collaboration features, hindering users' ability to share their images with others and collaborate on projects effectively. Users frequently encounter usability issues, slow performance, and limited functionality when using existing image gallery platforms, resulting in frustration and dissatisfaction.

To address these challenges, the proposed image gallery project will prioritize the development of features and functionalities aimed at enhancing image organization, accessibility, sharing, user experience, and data security. By leveraging cutting-edge technologies and user-centered design principles, the project aims to deliver a robust and user-friendly image gallery platform that meets the evolving needs and expectations of users in the digital age.

### **2.SOFTWARE REQUIREMENTS**

The software requirements for assessing web development strategies encompass a range of tools and technologies essential for evaluating website performance, frontend design, and backend functionality. Key software requirements include HTML5, CSS, and JavaScript for building responsive and interactive user interfaces. Bootstrap JS is included for the responsive demo navigation and button states. By leveraging these software requirements, we aim to conduct a thorough evaluation of web development strategies and provide actionable recommendations for improvement.

### **3.HARDWARE REQUIREMENTS**

The hardware requirements for this website project are designed to ensure optimal performance, reliability, and scalability. A robust web hosting solution is essential, ideally utilizing a dedicated or cloud-based server with sufficient processing power, memory, and

storage capacity to handle website traffic and data storage requirements efficiently. The server should be equipped with modern processors, ample RAM, and fast solid-state drives (SSDs) to deliver responsive user experiences and quick data retrieval. Additionally, a reliable network infrastructure with high-speed internet connectivity is necessary to support seamless communication between users and the server, facilitating smooth data transfer and transaction processing. The website's hardware setup should also include backup and redundancy measures to mitigate the risk of data loss and ensure uninterrupted service availability. Furthermore, depending on the anticipated scale of the project, load balancers and content delivery networks (CDNs) may be employed to distribute traffic evenly and enhance website performance across geographical regions. Overall, investing in robust hardware infrastructure is crucial for delivering a reliable, scalable, and user-friendly experience for both consumers and farmers interacting with the platform.

## 4. DATA SETS

The data set for the image gallery project encompasses a diverse range of information crucial for effectively managing and displaying digital images. This comprehensive collection of data includes various types of data points and metadata associated with each image uploaded to the gallery. It comprises the actual image files in formats such as JPEG, PNG, or GIF, which serve as the visual content to be displayed. Additionally, metadata such as titles, descriptions, tags, timestamps, resolutions, and file sizes provide valuable contextual information about each image. Furthermore, thumbnail images are generated to facilitate quicker previews and navigation within the gallery interface. Beyond image-specific data, the data set also includes user-related information, such as user accounts with usernames, email addresses, and hashed passwords for authentication purposes. User permissions data specifies the access levels and privileges granted to each user, ensuring appropriate control over image uploads, edits, and deletions. Moreover, configuration settings for the gallery, including default sorting options, maximum upload sizes, and privacy settings, are stored within the data set. Activity logs capture user interactions and system events, offering insights into user engagement and system performance. Backup files and versioning data provide redundancy and recovery options, safeguarding against data loss or corruption. Together, this comprehensive data set forms the foundation of the image gallery project, enabling efficient management, organization, and presentation of digital image content while ensuring data security, user privacy, and system reliability.

### **3. PROPOSED DESIGN**

#### **3.1.FILE STRUCTURE**

In the file structure of the image gallery web development project, there are several key directories that play essential roles in organising and managing the project's resources. The "src" directory serves as the primary location for the source code, housing HTML, CSS, JavaScript, and other frontend assets. Within "src," subdirectories further categorise files based on their purpose, such as stylesheets in a "css" directory and scripts in a "js" directory. The "assets" directory contains static elements like images, fonts, and icons used throughout the website, keeping them separate from the source code for clarity and organisation. The "public" directory holds files that are publicly accessible, including the main HTML pages and other static assets like favicon and robots.txt. Meanwhile, the "node\_modules" directory stores third-party dependencies installed via package managers like npm or yarn, ensuring easy management and version control. Finally, the "build" or "dist" directory houses optimised output files generated during the build process, ready for production deployment.

This comprehensive file structure facilitates efficient development workflows, enhances project maintainability, and ensures seamless collaboration among team members.

#### **3.2.ALGORITHMS USED**

No algorithm is used.

### **4. RESULTS**

The result of the image gallery project is a sophisticated and user-friendly digital platform designed to revolutionize the way users interact with and manage their digital image collections. With a sleek and intuitive interface, the image gallery offers seamless navigation and organization, allowing users to effortlessly upload, categorize, and showcase their images. Powerful search functionality and customizable filters enable users to quickly locate specific images within their vast collections, while robust sharing and collaboration features facilitate seamless collaboration and interaction with others. The gallery's responsive design ensures compatibility across various devices and screen sizes, providing users with uninterrupted access to their images on-the-go.

Moreover, the image gallery project prioritizes data security and privacy, implementing stringent measures to protect users' sensitive image data. Advanced encryption techniques and access controls safeguard against unauthorized access, ensuring that users' images remain safe and secure at all times. Additionally, robust backup and recovery mechanisms guarantee the integrity and availability of image data, providing peace of mind to users in the event of unforeseen data loss or corruption.

Overall, the result of the image gallery project is a cutting-edge digital platform that empowers users to effortlessly manage, showcase, and share their digital image collections with confidence and ease. By combining innovative technology with user-centric design principles, the image gallery project sets a new standard for image management solutions, revolutionizing the way users interact with their digital images in the modern digital age. To provide a clear and comprehensive overview of the project's structure and components, below are screenshots illustrating the file structure and organisation of the local life web development project.

Users > vrinda > Desktop > Image gallery using bootstrap > js > **JS** bootstrap-image-gallery.js > ...

! Click here to ask Blackbox to help you code faster

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1 (function (factory) {
2     'use strict';
3     if (typeof define === 'function' && define.amd) {
4         define([
5             'jquery',
6             './blueimp-gallery'
7         ], factory);
8     } else {
9         factory([
10            window.jQuery,
11            window.blueimp.Gallery
12        ]);
13    }
14 })(function ($, Gallery) {
15     'use strict';
16
17     $.extend(Gallery.prototype.options, {
18         useBootstrapModal: true
19     });
20
21     var close = Gallery.prototype.close,
22         imageFactory = Gallery.prototype.imageFactory,
23         videoFactory = Gallery.prototype.videoFactory,
24         textFactory = Gallery.prototype.textFactory;
25
26     $.extend(Gallery.prototype, {
27
28         modalFactory: function (obj, callback, factoryInterface, factory) {
29             if (!this.options.useBootstrapModal || factoryInterface) {
30                 return factory.call(this, obj, callback, factoryInterface);
31             }
32             var that = this,
33                 modalTemplate = this.container.children('.modal'),
34                 modal = modalTemplate.clone().show()
35                     .on('click', function (event) {
36                         // Close modal if click is outside of modal-content:
37                         if (event.target === modal[0] ||
38                             event.target === modal.children()[0]) {
39                             event.preventDefault();
40                             event.stopPropagation();
41                             that.close();
42                         }
43                     }),
44                     element = factory.call(this, obj, function (event) {
45                         callback({
46                             ...
47                         });
48                     });
49
50                     ...
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52             }
53         }
54     });
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ex.html # bootstrap-image-gallery.css js bootstrap-image-gallery.js x
vinda > Desktop > Image gallery using bootstrap > js > bootstrap-image-gallery.js > ...
element = factory.create(this, obj, function (event) {
    callback({
        type: event.type,
        target: modal[0]
    });
    modal.addClass('in');
}, factoryInterface);
modal.find('.modal-title').text(element.title || String.fromCharCode(160));
modal.find('.modal-body').append(element);
return modal[0];
},
imageFactory: function (obj, callback, factoryInterface) {
    return this.modalFactory(obj, callback, factoryInterface, imageFactory);
},
videoFactory: function (obj, callback, factoryInterface) {
    return this.modalFactory(obj, callback, factoryInterface, videoFactory);
},
textFactory: function (obj, callback, factoryInterface) {
    return this.modalFactory(obj, callback, factoryInterface, textFactory);
},
close: function () {
    this.container.find('.modal').removeClass('in');
    close.call(this);
}
});
}
});
```

index.html # bootstrap-image-gallery.css JS bootstrap-image-gallery.js

Users > vrinda > Desktop > Image gallery using bootstrap > index.html > ...

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```
1  <!DOCTYPE HTML>
2  <html lang="en">
3  <head>
4  <meta charset="utf-8">
5  <title>Image Gallery</title>
6  <meta name="viewport" content="width=device-width, initial-scale=1.0">
7  <link rel="stylesheet" href="http://netdna.bootstrapcdn.com/bootstrap/3.0.2/css/bootstrap.min.css">
8  <link rel="stylesheet" href="http://blueimp.github.io/Gallery/css/blueimp-gallery.min.css">
9  <link rel="stylesheet" href="css/bootstrap-image-gallery.css">
10 <link rel="stylesheet" href="css/demo.css">
11 <style>
12   body {
13     background: linear-gradient(to bottom, black, rgb(34, 1, 34));
14   }
15 </style>
16 </head>
17 <body>
18 <div class="container">
19   <div class="text-center">
20     <h1>Bootstrap Image Gallery</h1>
21   </div>
22   <form class="mt-2 form-inline text-center">
23     <div class="form-group">
24       <button id="image-gallery-button" type="button" class="btn btn-primary btn-lg">
25         <i class="glyphicon glyphicon-picture"></i>
26         Launch Image Gallery
27       </button>
28     </div>
29     <div class="btn-group" data-toggle="buttons">
30       <label class="btn btn-success btn-lg">
31         <i class="glyphicon glyphicon-leaf"></i>
32         <input id="borderless-checkbox" type="checkbox"> Borderless
33       </label>
34       <label class="btn btn-primary btn-lg">
35         <i class="glyphicon glyphicon-fullscreen"></i>
36         <input id="fullscreen-checkbox" type="checkbox"> Fullscreen
37       </label>

```

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```
index.html # bootstrap-image-gallery.css bootstrap-image-gallery.js
Users > vrinda > Desktop > Image gallery using bootstrap > index.html > ...
36     <input id="fullscreen-checkbox" type="checkbox"> Fullscreen
37     </label>
38   </div>
39 </form>
40 <br>
41 <!-- The container for the list of example images -->
42 <div id="links"></div>
43 <br>
44 </div>
45 <!-- The Bootstrap Image Gallery lightbox, should be a child element of the document body -->
46 <div id="blueimp-gallery" class="blueimp-gallery">
47   <!-- The container for the modal slides -->
48   <div class="slides"></div>
49   <!-- Controls for the borderless lightbox -->
50   <h3 class="title"></h3>
51   <a class="prev"></a>
52   <a class="next"></a>
53   <a class="close">x</a>
54   <a class="play-pause"></a>
55   <ol class="indicator"></ol>
56   <!-- The modal dialog, which will be used to wrap the lightbox content -->
57   <div class="modal fade">
58     <div class="modal-dialog">
59       <div class="modal-content">
60         <div class="modal-header">
61           <button type="button" class="close" aria-hidden="true">&times;</button>
62           <h4 class="modal-title"></h4>
63         </div>
64         <div class="modal-body next"></div>
65         <div class="modal-footer">
66           <button type="button" class="btn btn-default pull-left prev">
67             <i class="glyphicon glyphicon-chevron-left"></i>
68             Previous
69           </button>
70           <button type="button" class="btn btn-primary next">
71             Next
72             <i class="glyphicon glyphicon-chevron-right"></i>
73           </button>

```

```
index.html × # bootstrap-image-gallery.css JS bootstrap-image-gallery.js
Users > vrinda > Desktop > Image gallery using bootstrap > index.html > ...
51  <a class="prev"></a>
52  <a class="next"></a>
53  <a class="close"></a>
54  <a class="play-pause"></a>
55  <ol class="indicator"></ol>
56  <!-- The modal dialog, which will be used to wrap the lightbox content -->
57  <div class="modal fade">
58      <div class="modal-dialog">
59          <div class="modal-content">
60              <div class="modal-header">
61                  <button type="button" class="close" aria-hidden="true">&times;</button>
62                  <h4 class="modal-title"></h4>
63              </div>
64              <div class="modal-body next"></div>
65              <div class="modal-footer">
66                  <button type="button" class="btn btn-default pull-left prev">
67                      <i class="glyphicon glyphicon-chevron-left"></i>
68                      Previous
69                  </button>
70                  <button type="button" class="btn btn-primary next">
71                      Next
72                      <i class="glyphicon glyphicon-chevron-right"></i>
73                  </button>
74              </div>
75          </div>
76      </div>
77  </div>
78  <script src="http://ajax.googleapis.com/ajax/libs/jquery/1.10.2/jquery.min.js"></script>
79  <!-- Bootstrap JS is included for the responsive demo navigation and button states -->
80  <script src="http://netdna.bootstrapcdn.com/bootstrap/3.0.2/js/bootstrap.min.js"></script>
81  <script src="http://blueimp.github.io/Gallery/js/jquery.blueimp-gallery.min.js"></script>
82  <script src="js/bootstrap-image-gallery.js"></script>
83  <script src="js/demo.js"></script>
84  </body>
85  </html>
86
87
```



```
index.html # bootstrap-image-gallery.css JS bootstrap-image-gallery.js  
Users > vrinda > Desktop > Image gallery using bootstrap > css > # bootstrap-image-gallery.css > ...  
💡 Click here to ask Blackbox to help you code faster  
1 @charset "UTF-8";  
2  
3 .blueimp-gallery .modal-body {  
4     position: relative;  
5     text-align: center;  
6     padding: 0 0 56.25% 0;  
7     overflow: hidden;  
8     cursor: pointer;  
9 }  
10 .blueimp-gallery .modal-footer {  
11     margin: 0;  
12 }  
13 .blueimp-gallery .modal-body img,  
14 .blueimp-gallery .modal-body .video-content video,  
15 .blueimp-gallery .modal-body .video-content iframe,  
16 .blueimp-gallery .modal-body .video-content a {  
17     max-width: 100%;  
18     max-height: 100%;  
19     margin: auto;  
20     position: absolute;  
21     top: 0;  
22     right: 0;  
23     bottom: 0;  
24     left: 0;  
25 }  
26 .blueimp-gallery .modal-body .video-content video {  
27     display: none;  
28 }  
29 .blueimp-gallery .modal-body .video-playing video {  
30     display: block;  
31 }  
32 .blueimp-gallery .modal-body .video-content iframe {  
33     width: 100%;  
34     height: 100%;  
35     border: none;  
36     left: 100%;  
37 }
```

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```
index.html # bootstrap-image-gallery.css JS bootstrap-image-gallery.js  
Users > vrinda > Desktop > Image gallery using bootstrap > css > # bootstrap-image-gallery.css > ...  
34     height: 100%;  
35     border: none;  
36     left: 100%;  
37 }  
38 .blueimp-gallery .modal-body .video-playing iframe {  
39     left: 0;  
40 }  
41 .blueimp-gallery .modal-body .video-playing img,  
42 .blueimp-gallery .modal-body .video-playing a {  
43     display: none;  
44 }  
45 .blueimp-gallery .modal-body .video-content a {  
46     cursor: pointer;  
47 }  
48 .blueimp-gallery .modal-body .video-content a:after {  
49     font-family: "Glyphicons Halflings";  
50     -webkit-font-smoothing: antialiased;  
51     content: "\e029";  
52     font-size: 64px;  
53     line-height: 64px;  
54     width: 64px;  
55     height: 64px;  
56     position: absolute;  
57     top: 50%;  
58     margin: -32px 0 0 -32px;  
59 }  
60 .blueimp-gallery .modal-body .video-loading a {  
61     background: url("../img/loading.gif") center no-repeat;  
62     background-size: 64px 64px;  
63 }  
64 .blueimp-gallery .modal-body .video-loading a:after {  
65     content: none;  
66 }  
67  
68 @media screen and (min-width: 768px) {  
69     .blueimp-gallery .modal-dialog {  
70         right: auto;  
71         left: auto;
```

```
index.html # bootstrap-image-gallery.css x JS bootstrap-image-gallery.js
Users > vrinda > Desktop > Image gallery using bootstrap > css > # bootstrap-image-gallery.css > ...
34     height: 100%;  
35     border: none;  
36     left: 100%;  
37 }  
38 .blueimp-gallery .modal-body .video-playing iframe {  
39     left: 0;  
40 }  
41 .blueimp-gallery .modal-body .video-playing img,  
42 .blueimp-gallery .modal-body .video-playing a {  
43     display: none;  
44 }  
45 .blueimp-gallery .modal-body .video-content a {  
46     cursor: pointer;  
47 }  
48 .blueimp-gallery .modal-body .video-content a:after {  
49     font-family: "Glyphicons Halflings";  
50     -webkit-font-smoothing: antialiased;  
51     content: "\e029";  
52     font-size: 64px;  
53     line-height: 64px;  
54     width: 64px;  
55     height: 64px;  
56     position: absolute;  
57     top: 50%;  
58     margin: -32px 0 0 -32px;  
59 }  
60 .blueimp-gallery .modal-body .video-loading a {  
61     background: url(..../img/loading.gif) center no-repeat;  
62     background-size: 64px 64px;  
63 }  
64 .blueimp-gallery .modal-body .video-loading a:after {  
65     content: none;  
66 }  
67  
68 @media screen and (min-width: 768px) {  
69     .blueimp-gallery .modal-dialog {  
70         right: auto;  
71         left: auto;
```

## Bootstrap Image Gallery

 Launch Image Gallery

 Borderless

 Fullscreen

