Adventure Works Photo Sharing Web Application (Proposed)

# Introduction

The Adventure Works board has asked the authors to investigate the possibility of building a public photo sharing web application, on which Adventure Works customers can share photographs of the rides, bikes, other equipment, and any other pictures. The objectives of this site are to create a community of Adventure Works equipment users and encourage customers to participate in sharing their experiences.

We have interviewed board members, customers, web application administrators, and other stakeholders and present in this document a proposal for a suitable web application and its broad functionality. We have included:

* A general description of the proposed web application and its intended functionality.
* A series of use cases that describe tasks, which customers can complete in the photo sharing web application..

The authors hope that this document defines the scope of the web application clearly, enables board members to approve the development of the project, and provides all the information developers need to begin their work.

**Note:** This document is not intended to be a final description of the web application that will be created. As the project progresses, extra functionality may be added, and the specifications given in this document may be refined. These changes must be made in consultation with stake holders. The project managers need to make the final decisions on such additions and refinements.

# General Description of the Photo Sharing Web Application

The proposed photo sharing web application must enable users to upload, share, and discuss photographs. Users must be able to:

* Upload a photo that they have taken. Photos should be in a common image format but will usually be JPEGs.
* Add to their photos titles, descriptions, and other metadata.
* Remove photos.
* View individual photos in a large size.
* Add comments to photos.
* Browse through all the photos in the site.
* Add photos to favorites and browse all the favorites photos
* Chat with other users about a photo

The web application should be available for any visitor to browse photos without logging on. This can act as an advertising opportunity for Adventure Works equipment because those without credentials for the site can see bikes in action and a vibrant user community. Anonymous users, however, should not be enabled to make any changes to the photos on the site: this requires a user account.

# Use Cases

The following use cases describe scenarios in which customers use the proposed photo sharing web application. All core functionality has been included in these use cases but they should not be considered definitive. As development progresses extra functionality may be added at the discretion of the project managers.

## Use Case 1: Browsing Photos

When a visitor browses photos in the web application, the following steps take place:

1. The site visitor enters the site as an anonymous user at the home page or clicks the **Home Page** link in the menu.
2. The home page displays thumbnails of the most recently added photos in the web application. For each photo the title, owner, and created date is displayed.
3. If the anonymous user wants to see all the photos in the site, the user clicks the **All Photos** link on the main menu.
4. The web application displays the photo gallery with thumbnails of all photos in the list. For each photo the title, owner, and created date is displayed.
5. If the anonymous user wants to see a photo at full size, the user clicks the photo thumbnail or the **Details** link for that photo.
6. The web application displays the chosen photo at full size. The photo title, owner, description, created date, and comments are also displayed.

## Use Case 2: Adding a Comment to a Photo

When a customer adds a comment to a photo, the following steps take place:

1. The customer clicks on the **Details** link below a photo or clicks a photo in the photo gallery.
2. The web application displays the chosen photo at full size. The photo title, owner, description, created date, and existing comments are also displayed.
3. The user fills in content for the subject and fills in the content for his comment.
4. The user clicks **Submit**.
5. The new comment is displayed at the bottom of the list of comments with the name of the user that created it.

## Use Case 3: Adding a Photo

When a customer adds a photo to the web application, the following steps take place:

1. The user clicks the **Add Photo** link on the main site menu.
2. If the user is anonymous, the logon page is shown and the user provides credentials.
3. If the credentials are correct the **Create Photo** page is displayed.
4. The user types a title.
5. The user specifies the photo file to upload.
6. The user optionally types a description for the photo.
7. The user clicks the **Upload** button.
8. The web application stores the new photo and displays the photo gallery to the user.

## Use Case 4: Deleting a Photo

When a customer deletes a photo from the web application, the following steps take place:

1. The customer clicks the **Log On** link on any page in the web application.
2. The logon page is shown and the user provides credentials.
3. If the credentials are correct the home page is displayed.
4. The customer clicks on a **Details** link in the photo gallery.
5. The web application displays the chosen photo at full size. The photo title, owner, description, created date, and comments are also displayed. If the customer is authenticated and the owner of the current photo has the same username as the customer, the **Delete this Photo** link is displayed.
6. The customer clicks the **Delete this Photo** link.
7. The web application requests confirmation.
8. If the customer confirms the deletion, the photo is removed from the database together with all the comments about it.
9. The web application displays the photo gallery to the customer.

## Use Case 5: Adding a Photo to the Favorites collection

When a customer adds a photo to the favorites collection, the following steps take place:

1. The customer clicks on the **Details** link below a photo in the photo gallery.
2. The web application displays the chosen photo at full size. The photo title, owner, description, created date, and existing comments are also displayed.
3. The user clicks **Add To Favorites**.
4. The photo is added to the favorites collection

## Use Case 6: Browsing Favorite Photos

When a visitor browses favorite photos in the web application, the following steps take place:

1. The user clicks the **Favorites Photos** link on the main menu.
2. The web application displays the photo gallery with thumbnails of all the favorite photos in the list. For each photo the title, owner, and created date is displayed.
3. If the anonymous user wants to see a photo at full size, the user clicks the photo thumbnail or the **Details** link for that photo.

## Use Case 7: Chat about a Photo

When a customer wants to chat about a photo, the following steps take place:

1. The customer clicks on the **Details** link below a photo or clicks a photo in the photo gallery.
2. The web application displays the chosen photo at full size. The photo title, owner, description, created date, and existing comments are also displayed.
3. The user fills in content for the nickname and fills in the content for his message.
4. The user clicks **Submit**.
5. The new message is displayed at the bottom of the list of messages with the name of the user that created it.
6. Messages from other users chatting about the same photo appear in real time at the bottom of the list of messages with the name of the user that created it.