DT228/3 Cloud Computing CA 2
Picture Box Design Document

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Specification:

Design, build, test and deploy an application on the google app engine to upload and share photos between web users. This application will have 3 types of user: Guest, User and Admin.
A Guest will only be able to view public images but not delete them, and sign in to become a user or an admin.
A User will be able to view public images as well as their own private images, as well as delete any images they have uploaded. They will be able to upload images to the public and private libraries. They will not be able to delete the images of other users.

An Admin will have all the privileges a User does, but will also be able to delete any public images.

C12474932_Cloud_AssignmentServlet.java

Function:

This servlet is responsible for displaying the homepage of the app, and displaying options to the user based on what kind of user they're currently signed in as.

UploadServlet.java

Function:

This servlet is responsible for creating blobs out of what the user enters into the form created by upload.jsp. It then takes these blobs and uploads them to the datastore as an entity, with values for the blob key, user name and privacy.

Upload.jsp

Function:

This file displays a form for the user to fill out, in which they upload an image, tick a button for it to be public or private, and then submit it.

ServeServlet.java

Function:

This servlet exists so that when a user clicks on an image in either PublicImages or PrivateImages, it will display in full size.

PublicImages.java

Function:

This servlet is returns every entity in the datastore that's been marked public and displays them as images. If any images have the same username in them as the user's email address, an option to delete them appears.

PrivateImages.java

Function:

This servlet is returns every entity in the datastore that's been marked public and shares the same name as the current user's email address, and displays them as images. Any images displayed in this manner will also have an option to be deleted.