

```

class ImageViewerServlet extends HttpServlet {
    ImageManagerService imageManagerService;

    public void service(httpReq, httpResp) {
        int imageId = Integer.parseInt(httpReq.getParameter("imageId"));
        imageManagerService = new ImageManagerService();
        byte[] image = imageManagerService.getImage(imageId);
        // render that image to the user
    }
}

```

```

interface ImageManagerService{
    byte[] getImage(int imageId);
}

```

web-client



mobile

```

class ImageManagerCompressionService
implements ImageManagerService {
    private ImageManagerService
imageManagerService;

    public byte[] getImage(int imageId) {
        imageManagerService = new
ImageManagerServiceImpl();
        byte[] orgImage =
imageManagerService.getImage(imageId);

        // reduce size
        // compress the quality
        return modImage;
    }
}

```

```

class ImageManagerServiceImpl
implements ImageManagerService {
    public byte[] getImage(int imageId) {
        // going to the underlying storage
        database (rdbms, S3 etc)
        // queries and fetches the image in bytes
        return image;
    }
}

```



storage

quickflick.com



Photo App
Web Application



Cloud Photo
Storage
Server



quickflick
(compression)