Images are an important part of enhancing the visual appeal of a web app. Let's incorporate a photo upload feature for users. The 17-minutes video above may be helpful to help you get started. It would be good that you have done research and made some attempts before watching the video so that it serves as a learning consolidation for you. Note that there is no audio for the video.

Handling Uploads

For image uploading with Rails, we recommend using the following gems:

- CarrierWave
- MiniMagick

What's great about Carrierwave is that it has a generator that creates a self-container uploader class which houses all the logic for uploading files. Learn how to read CarrierWave's documentation and how you may implement it.

If you haven't already stumbled upon it, Railscast has heaps of handy step-by-step videos that can help guide you through trouble waters in your Rails journey. For example, check out this RailsCast on CarrierWave if you get stuck. Do note that while Ryan Bates *is* on hiatus and these railscasts may be a bit dated, a lot of the materials still hold relevance till today.

Models and Routes

You'll want to incorporate the following for photos:

- A user can upload one profile photo
- A listing can have many listing photos

Styling images

Once you've ensured that your uploader is working swell, incorporate the following styling for your images:

- **Profile photo**: AirBnb has a nice looking circle profile image in the navbar! Display a user's profile image in the navbar when they are logged in. Perhaps using the border-radius element?
- **Incorporate a carousel**: Show tiled images of a listing's photos in the listing show page. Or better yet, incorporate an image carousel - perhaps using a carousel plugin or Bootstrap's carousel component?
- **Preview image**: Include a preview image for each property in the listing page. Make sure it's responsive!