Week 3 Overview

A Working App for ILLIAC

On this page:

Video Lectures   Assignments   Time   Tips for Success   Getting and Giving Help

Video Lectures

Video Lecture	Key Topics	Transcript	Video Download	SRT Caption File

3.1. Localization (Internationalization)

(00:08:36)	• Language-specific strings • Changing the emulator's locale	≡	⬇ (12.2 MB)	☰

Next Steps for 3.1

1. Create some alternative localizations for your app. Preview your app under different languages using the phone or emulator.
2. Lawrence used Google translate as starting point for text translation.
3. Further reading for the curious: Localizing with Resources and Introduction to resources and qualifiers.

3.2. Exporting ILLIAC for User Testing

Video Lecture	Key Topics	Transcript	Video Download	SRT Caption File
(00:12:45)	- Scrolling - XML start tags and end tags - Working with layout constraints - Creating a keystore - Signing and exporting an app	☰	⬇ (21.1 MB)	☷

Next Steps for 3.2

1. Add ScrollView to your app layouts. Note smaller content can be stretched using ScrollView's *fillViewpor* inner content fills the entire ScrollView area.
2. Test and continue to develop your app. Test it with different screen sizes and densities.
3. Export a signed version of your app. (See the next video on how to install it.)
4. Test ILLIAC and look for bugs:
   - Download Awesome-ILLIAC1-BeforeTesting.zip (9913496 bytes) - this is the entire project not just th
   - It has at least one bug (i.e. problem) that you can find if you test carefully enough.
   - Before importing this project, uncompress (extract) the zip file into a local directory. This will make a "Awesome2a"
   - Use File Menu "Import>Android>Existing Android Code Into Workspace" and select the "Awesome2a made.
   - You may need to restart Eclipse or right (control-) click on the project and select Android Tools> Fix may need to change the project's Java compiler settings if you only have JDK1.7 installed.
5. Install the app on your phone and/or emulator and test it. Can you find any bugs?
6. Visit the Discussion forum for 3.2 for other announcements, help, ideas and compare experiences with o

3.3. Installing ILLIAC.APK

Video Lecture	Key Topics	Transcript	Video Download	SRT Caption File
INSTALLING ILLIAC.APK (00:05:54)	- Deleting apps - Installing an app from an unknown source - Downloading and installing the APK	☰	⬇ (11.5 MB)	☰

Next Steps for 3.3

1. Remove your app from the emulator or phone.
2. Upload your APK to a website (Lawrence used Box and Coursera but see the discussion forum to find ou websites other students recommend in your country).
3. Install your own APK by downloading it from the website.

Note: We do not suggest you download an arbitrary apk from an unknown source unless you trust the autho require any permissions.

3.4. Testing, Tweaks, and Final ILLIAC Thoughts
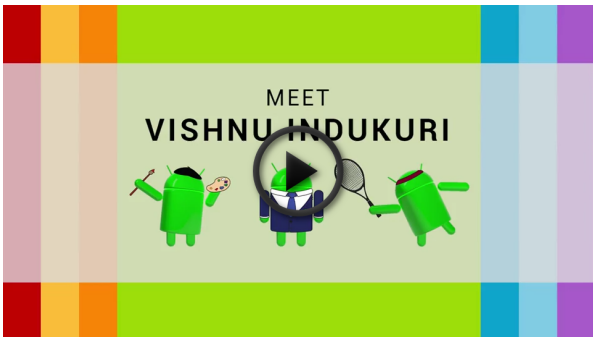
Video Lecture	Key Topics	Transcript	Video Download	SRT Caption File
TESTING, TWEAKS, AND FINAL ILLIAC THOUGHTS (00:10:04)	- Removing unnecessary resources - Spacing - Non-translatable resources - Image memory constraints on Android 2.x devices - onCreate when app is rotated - How to export your entire project	☰	⬇ (17.4 MB)	☰

Next Steps for 3.4

Video Lecture	Key Topics	Transcript	Video Download	SRT Caption File

1. Suggested reading: Metrics and Grids.
2. Download and play with the ILLIAC project - ILLIAC1-AfterTesting.zip (9330216 bytes).
   - Before importing into Eclipse you need to uncompress (extract) the zip file into a local directory.
   - Use File Menu Import>Android>Existing Android Code Into Workspace.
   - You may need to right (control-) click on the project and select Android Tools>Fix Project Properties. change the project's Java compiler settings if you only have JDK1.7 installed. Search the discussion need help.
3. *Play with it. Explore. Try changing layouts and texts. Break it. Fix it. Can you improve it or change it sign.*
4. Visit the discussion forum for 3.4 if you have more questions or want to talk about what you made.
5. Advanced programmers may wish to read more about what has changed in Android's memory handling: for Android Apps. Modern Android (3.0+) now uses Java heap memory for bitmaps, but if you're intereste discussion from 2010/2011: Long discussion from 2010 about bitmap handling bug. Unfortunately, there emulator-2.3.3 only bugs that can bite you.

Interview with Vishnu

Video Lecture	Key Topics	Transcript	Video Download	SRT Caption File
(00:05:07)	Round off your week with University of Illinois student Vishnu, as he shares his own Android app development experience.	≡	⬇ (8.0 MB)	☰

Assignments

Once you have finished watching the videos for this week, complete the quiz on the information you learned.

To begin, access the quiz page below and click the **Start Quiz Now** button at the bottom of that page. You have 5 attempts to complete this quiz.

Go to Week 3 Quiz

This quiz is due by Sunday, January 12 at 11:55 PM Central Time (time zone conversion).

The first assignment for the course is now available. To find out more about it, access the Assignment 1 page below.

Go to Assignment 1

This assignment is due by Sunday, January 12 at 11:55 PM Central Time (time zone conversion).

Time

This module will last **7 days** and should take **approximately 4-8 hours** of dedicated time to complete, including the videos and assignments.

Tips for Success

To do well this week, I recommend that you do the following:

- Review the video lectures a number of times to gain a solid understanding of the key questions and concepts introduced this week.
- When possible, provide tips and suggestions to your peers in this class. As a learning community, we can help each other learn and grow. One way of doing this is by helping to address the questions that your peers pose. By engaging with each other, we'll all learn better.
- It's always a good idea to refer to the video lectures in your responses. When appropriate, critique the information presented.
- Take notes while you watch the lectures for this week. By taking notes, you are interacting with the material and will find that it is easier to remember and to understand. With your notes, you'll also find that it's easier to complete your assignments. So, go ahead, do yourself a favor; take some notes!

Getting and Giving Help

We strongly encourage you to join the culture of the application development community. This means not struggling with problems in isolation! Rather, when you encounter a problem, please try the following:

- Turn to your favorite search engine and search the Internet for help. Often, you will be most successful in finding the help you need by searching for the exact text of an error message you might be encountering. Sometimes, adding the term RESOLVED to your search query will help you hone-in on Discussion forum posts where someone else has received advice that ultimately resolved the problem they were encountering.
- Form groups of friends, both here in this class and perhaps locally in your geographic area. You can explore the Getting to Know Your Classmates forum, reach out via the course's social media venues, or join a Meetup.
- Use the forums dedicated to each week's topics for help solving technical problems on your computer or Android device. Please use the forum that most closely matches your problem. Explore the forum to see if others have encountered the same problem and received helpful advice that may be useful in your situation. If your problems persist, please do post in the forums to ask for help.

If you encounter a problem with the course itself, you have options! You can get help via any of the following means:

- You can report a specific problem by clicking on the **Help** link at the top right of any course page.
- Use the Course Materials Errors forum for problems with course materials such as typos, factual errors, or grading errors.
- Use the Technical Issues forum for problems related to the Coursera platform such as broken links, error messages, and other technical issues.

Due to the very large number of students enrolled in this course, the instructor is not able to answer emails sent directly to his account. Rather, all questions should be posted to one of the above forums. You are encouraged to help your fellow students by responding to posts made in these forums with solutions and by "voting up" the most important posts. University of Illinois staff will monitor these forums and will focus their attention on those that have been voted up the most.

Created Wed 12 Dec 2012 7:10 AM PST

Last Modified Mon 16 Dec 2013 6:39 AM PST