Android Development Implementation Guide: Requirements and Lecture Notes

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1. Documentation and Report Structure (2000 Words)

Instructor's Guidance on Report Writing:

> "Thousand words is a lot, right? So 2000 words is. Is not that."

Key requirement from checklist: Submit all work in a single PDF document.

What NOT to Include:

Direct quote from lecture:

> "You don't need to explain for the major explaining a ui, you don't need to explain that what the text view is, what edit text is, what button is. We do know that what those things are, what the layout elements are."

What to Focus On:

Direct quote:

> "What you need to explain is why do you use that particular structure in your ui, right?"

2. UI Design Documentation Requirements

Screenshots and Interface Components

From checklist:

- Screenshots/Images must be legible
- Specify device used
- Include XML links in figure captions

Supported by lecture quote:

> "Yeah, they should be clear and the quality of the screenshot should be [...] I should be able to see smaller, for example, if they are very small UI view elements."

XML Documentation requirement:

> "You need to use XML links as caption for each UI element that you present on your report."

Layout Implementation Considerations

Lecture guidance on structure:

> "So. Or if you use for example here to create more stability of your UI for the you are using constraint layout within any linear layout within your constraint layout or any other scroll layout, right?"

3. Testing and Evaluation Requirements

Test Documentation

Required elements from lecture:

> "The participants, the test plan. Right. Study settings, procedures that you use, consent forms, technique shoes, outcome."

Consent Forms and Environment

Detailed requirement:

> "You can use the same consent form, I mean it has to be signed very person now, but you can use the same structure of your consent form, your assessment form and you need to provide screenshot of your environment with the participant."

Implementation Level Required

From lecture:

> "You need to create 95% solution"

4. Technical Implementation Requirements

From Checklist:

- API Integration
  - Admin user management
  - Employee user features
  - Leave management
- Local Database (SQLite)
- Design patterns
- SOLID principles
- Notifications
- Worker threads

Technical Considerations

Caching note from lecture:

> "Actually the thing is so it hasn't cached that information so it refreshes after some time."

5. Video Documentation Requirements

Length and Focus

From lecture:

> "I mean it's just three to five minutes" "I think the more important is that the components are actually working"

Content Requirements

Clarification from instructor:

> "So in video you want to show that you all the components of your application are actually working in your report. You don't need to explain those things, right? That they are working. You need to explain the. How do you build your code, the function back end of your application?"

6. Version Control Requirements

GitHub Integration

From lecture:

> "So get remote is to connect your local repository to the remote repository, right?"

Branch naming consideration:

> "Git creates. I think I need to check this. Git creates with master I think GitHub creates with main"

Final Submission Checklist

1. Report (PDF) containing:
   - Design explanations
   - Screenshot documentation
   - XML links
   - Test documentation
   - GitHub repository link
   - Implementation explanations
2. Video demonstration (3-5 minutes)
3. Working application with:
   - API integration
   - Local database
   - Proper design patterns
   - Required functionalities

Note: This document combines both the official checklist requirements and the instructor's specific guidance from the lecture to provide a complete reference for the project submission.