DCIT 65 – Midterm Exam

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Case Study: GreenTech Solutions Mobile App

1. Ethics and Professionalism in Technology

We follow ACM Code and IEEE Code in all work. Team sign NDA and agree to honesty. Every week meeting to tell client what we do. No hide bug. If find problem that can harm user money, fix first like avoid harm rule.

Public good important. App not push high risk invest that hurt poor user. Add warning before risky action. Like Robinhood case, they fine for bad practice. We train team every month on ethical decision. If someone not follow, remove from project.

Professional mean take accountability. If system fail, own mistake and fix. No conflict of interest. No take gift from vendor.

2. Privacy in the Digital Age

App collect only need data: name, email, bank link, income, expense. No take location or contact unless user say yes for feature.

Privacy policy simple words. Show at sign up and remind every year. User click agree. Informed consent must clear.

Data protect: AES-256 encrypt save and send. HTTPS use. Token login, no store password. 2FA for all.

Follow RA 10173 Data Privacy Act. User can access, correct, erase data. Delete account button remove all in 30 days. Breach tell NPC and user in 72 hours. Also follow GDPR for EU user. Data minimization, only collect necessary.

Example Equifax breach 2017 show why need audit every 3 month. We do penetration test. No sell data like Cambridge Analytica.

3. Intellectual Property Rights in IT

App code, design, algorithm is IP. Protect source code in private GitHub. NDA for team.

Trademark name "GreenTech Budget" and logo at IPOPHL. Patent predict expense algorithm if new and inventive. Like RA 8293.

Use open source but check license. MIT okay, GPL not for close app. EULA say user no reverse engineer.

No piracy. Like student download pirated software risk malware. We pay for all tool.

4. Social Media and Digital Citizenship

Social feature for share goal or challenge. Risk cyberbullying, troll, misinformation.

Add guideline at sign up: no harassment, no spam, respect others. Report button every post. Human and AI moderate in 24 hours. Filter bad word, bad link.

Privacy set default friend only. Promote digital empathy. Give badge for good comment.

Disclaimer on invest post "Not financial advice". Link to SEC warning. No echo chamber. Fact check before share.

Like Cambridge Analytica, no share user post data. Teach digital literacy in app tip.