

Ethics and Quality for "Locate a Socket"

Here are the main ethics and quality points for my EV charging app, based on the lecture.

1. Ethics Principles

1.1 Privacy

We deal with location and money, so privacy is important.

- **Action:** Encrypt data and don't sell location history. Only collect what we need.

1.2 Safety

Drivers use the app, so it must be safe.

- **Action:** Make buttons big and easy to read. Don't send people to dangerous places or broken chargers.

1.3 Honesty

No hidden fees or fake info.

- **Action:** Show the real price. If a charger is broken, say it clearly.

1.4 Fairness

The app is for everyone.

- **Action:** Make it accessible for people with disabilities. Don't hide cheaper chargers just to make money.

1.5 Accountability

We need to own our mistakes.

- **Action:** Let users report bugs easily. Fix payment errors quickly.
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2. Software Quality

2.1 Reliability

It has to work when you need it.

- **Goal:** The app shouldn't crash, especially when someone is low on battery.

2.2 Usability

Easy to use.

- **Goal:** Find a charger in 3 clicks or less. Works well on all phones.

2.3 Security

Protect the money.

- **Goal:** Use secure connections (HTTPS) and keep credit card info safe.

2.4 Performance

Fast loading.

- **Goal:** Maps should load in under 3 seconds. It shouldn't slow down with many users.

2.5 Maintainability

Easy to fix and update.

- **Goal:** Write clean code so we can add new features easily later.