

# Ethics and Quality for "Locate a Socket"

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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.