

Ethical Principles

1. **Public:** The software needs to operate for the public benefit by providing security and accessibility features for EV drivers.
2. **Client and Employer:** The program must preserve user data confidentiality according to specifications defined by client and employer entities.
3. **Product:** The target must be pursuing software excellence through accurate and secure programs that maintain complete functional along with non-functional requirements.
4. **Judgment:** The professional must exercise ethical conduct in all decisions to protect integrity and stay clear from conflicts of interest scenarios.
5. **Management:** Organisational management must build an ethical work environment based on quality and risk control systems that maintain legal and ethical standards.
6. **Profession:** The software engineering professional field will achieve enhanced reputation through adherence to best professional practices alongside ethical standards.
7. **Colleague:** Professional support among colleagues includes working together for upholding strict ethical standards and enhancing skills.
8. **Self:** Select ongoing education that focuses on both technological progress and moral practices found in software engineering.

Software Quality Characteristics

1. **Maintainability:** The code should have simple update capabilities as well as sustainable maintenance features to persist through EV charging technology advances in the future.
2. **Correctness:** The application requires correct functionality that matches its specifications including precise station identification and payment management operations.
3. **Reusability:** The application should feature reusable code components which can be used for multiple sections of the current system and later projects including user authorisation and payment capabilities.
4. **Reliability:** Real-time conditions demand that the system demonstrates consistent performance operation which results in accurate outcomes throughout diverse situations.
5. **Portability:** The system requires full interoperability between various operating systems starting from iOS and Android devices as defined in the use case constraints.
6. **Efficiency:** The system needs to use resources optimally to deliver quick application loading and fast interactive features that create an improved user experience.