SOFTWARE ENGINEERING ETHICS

1. ETHICS PRINCIPLE

1.1 Accessibility-: Ensuring that EV charging sockets are accessible to all the drivers. Installing EV stations at such place which can be reached easily.

1.2 Equity-: Equal access to all members of the community, regardless of their socio-economic status.

1.3 Sustainability-: Minimizing the environmental impact by prioritizing renewable energy.

1.4 Safety-: Ensure that charging station meet the safety standards to protect drivers from any potential hazards.

1.5 Transparency-: Clear information should be provided to the drivers about the location, availability and charging station.

1.6 Privacy-: Ensuring the privacy of EV drivers by implementing robust security measures.

1.7 Long-term planning-: Adopting a long-term planning to accommodate future growth in electric vehicles.

2. SOFTWARE QUALITY CHARACTERSTICS

2.1 Functionality-: The extent to which software system meet intended function effectively and accurately. It includes all the features.

2.2 Reliability-: Ability of the software to perform consistently, effectively and accurately. It involves error handling and system stability.

2.3 Usability-: How easy is to use the software system depends on the user interface, design, navigate and interact efficiently.

2.4 Efficiency-: It refers to the availability of a software system to perform its functions timely and efficiently.

2.5 Maintainability-: It refers to the ease with the which the software can modified or updated over a period of time.

2.6 Scalability-: It refers to the ability of the software to work with proper efficiency inspite of increased work-load and user demands.

2.7 Security-: It involves authentication and authorization. It refers to protection of the system from the unauthorized access.

REFERENCE – Deakin website example (From slides)