

Build an Android application to display fine dust levels in the air based on data collected from the ECT20 device.

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Abstract: In the context of increasingly severe environmental pollution, monitoring air quality has become an urgent need. This topic focuses on building an Android application to display PM2.5 fine particulate matter index based on data collected from the ECT20 device. The goal is to provide accurate and timely information to users, helping them proactively protect their health. The research method combines theory and experimentation to ensure the application optimizes stability and performance. The expected results contribute to the field of information technology serving social life.

Keywords: Android application, PM2.5 fine dust index, Data from ECT20 device, Environmental technology, Health protection