

## ABSTRACT

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*The Web-Based Parking Management Application is an application for managing vacant land that is used as a special parking area for car parking for residents of Permata Buah Batu Residential Housing. At Permata Buah Batu Residential Housing, there are still many residents who park their cars carelessly which results in disruption to public roads and triggers conflicts between residents because there are no zoning regulations indicating prohibited land to be used as parking lots. This Parking Management Application has a parking space reservation feature that can help Residents of Permata Buah Batu Residential Housing to find suitable parking areas for their car parks. Then it has a view zoning feature to provide information about lands that are prohibited, and which can be used as residents' car parks. Apart from that, it also has a parking area check feature that can monitor parking lots occupied by residents. The method for working on this application uses the Software Development Life Cycle (SDLC) method with the Waterfall model. The programming language uses PHP Framework Laravel and MySQL database. The conclusion is that this application can help Residents of Permata Buah Batu Residential Housing in preventing irregular parking and help to find a suitable parking space for residents to park their cars so that they are safer and not blocking public roads.*

*Keywords: Application, Management, Parking, Laravel.*