

Title: Tool for editing PDDL projects

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Abstract: The Planning Domain Definition Language (PDDL) is one of standard languages used for defining planning domains and problems. PDDL is a syntactically complex language therefore developers often make syntax and semantic errors. Working with larger PDDL files is time consuming. Unlike imperative programming languages (e.g. C#, C++), there is no suitable widespread tool for editing PDDL.

Our goal is to provide PDDL developers with tool for comfortable editing, which is known from tools for imperative programming languages (e.g. Microsoft Visual Studio). This thesis describes our project called PDDL Studio, which is capable of a) syntax highlighting, b) context sensitive code completion, c) error detection with Interactive Error Table, d) code collapsing, e) project management, f) XML export and import features, g) planner integration and h) common editor features (e.g. Bracket Matching, Line Counter). Our tool is multiplatform and it is designed to increase efficiency of PDDL developers and code readability.

Keywords: Problem Domain Definition Language, Integrated Development Environment, editor, syntax checking, syntax highlighting, code completion, code collapsing