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(54) Title: AUTOMATIC CONFIGURATION GENERATION

(57) Abstract

A computer implemented system analyzes an application state by determining entities which provide predetermined functionalities for a user, determining items that depend from the determined entities, grouping entities by pruning overlapping entities and combining similar entities, and packaging the group of entities using a predetermined format. The system provides automatic relationship resolution based on a current machine state to enumerate in a deterministic manner fundamental data, metadata and dependencies necessary for correct application function. In addition, state information is stored in a persistent format to be used in a variety of applications, including installation, synchronization, backup, recovery, analysis, and repair.