



Software Engineering Seminar

CLI Command Repair

Description

Using command line tools is often tedious and lacks intuitive help messages so that the user often has to search the internet to find a solution to occurring problems. Recently, an approach has been proposed that suggests fixed commands to the user when provided with the original, erroneous command and the returned error message [1]. The rules to create the supposedly fixed commands are derived from examples given to the tool beforehand.

The student is to examine the given approach and compare it to other similar techniques, while also discussing the idea behind "programming by example".

References

- [1] Loris D'Antoni, Rishabh Singh, and Michael Vaughn. Nofaq: synthesizing command repairs from examples. In *Proceedings of the 2017 11th Joint Meeting on Foundations of Software Engineering, ESEC/FSE 2017, Paderborn, Germany, September 4-8, 2017*, pages 582–592, 2017.

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