Bachelor Thesis – Automated emulated Linux installation

Background
Simulator/emulator based environments (STE) are used as complement to real hardware environment in order to save money and to have a user friendly and highly accessible test environment. When using the new simulator/emulator based environment for GSM an emulated SUSE Linux must be installed and saved. This is now done manually and it is troublesome and time consuming. Therefore this needs to be automated with a Graphical User Interface as starting point.

Thesis Description
- Investigate how the manual steps during emulated SUSE Linux installation can be automated and how the solution is best implemented.
- Based on the investigation, design the Graphical User Interface that specifies the needed variables for the installation. This shall be done both on a high system design level as well as on a low code level.
- Based on the investigation, design the script that automates the emulated SUSE Linux installation and saving. This shall be done both on a high system design level as well as on a low code level.
- Document the work in form of design specifications, user guides and test specifications.

Qualifications
Java programming for the Graphical User Interface.
Python script programming for the automation of emulated SUSE Linux installation.
Linux basic knowledge.

Extent
1 position.
15 points (Bachelor).

Preferred starting date
Q3 2014.

Keyword
Software design, Java, Python, Linux.
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