

TASK

Use the requirements (see Requirements.docx) to create:

1. The checklist for the smoke test and the smoke test itself.
2. The checklist for the critical path test.
3. The critical path test itself.

1. Smoke Test Checklist

1. Configuration and start with valid parameters
2. Converting files with valid input parameters(file type, encoding, size)
3. App stop by Ctrl+C command

The Smoke Test

| No. | Requirements No. | Module | Sub-Module/Screen | Test Case Description | Expected Results |
|------|--------------------------|-----------|-------------------------------------|--|---|
| ST-1 | UR-1.1 UR-2 DS-2.1 | starter | parameters analyzer | Configuration and start, valid parameters <i>Preparations:</i> a) install PHP (min.version 5.5); b) install and enable mbstring extension; c) create anywhere on the local drive two separate folders "Input files" and "Output files" 1. Run a command line 2. Execute in a command line: "php converter.phar SOURCE_DIR DESTINATION_DIR [LOG_FILE_NAME]" | 1. A command line runs 2. The app runs, no error messages |
| ST-2 | DS-5 DS-3.1 | converter | parameters analyzer, file processor | Converting, valid input parameters <i>Preparations:</i> a) create in any place of a local drive a folder named "Test files" and place there 9 files, each up to 50 MB inclusive: .txt file in WIN1251, .txt file in CP866, .txt file in KOI8R, .html file in WIN1251, .html file in CP866, .html file in KOI8R, .md file in WIN1251, .md file in CP866, .md file in KOI8R b) create in any place of a local drive 2 folders: "Input files", "Output files" 1. Start converter.phar with valid parameters 2. Copy the 9 files from the "Test files" folder to "Input files" folder | 1. The app starts 2. The 9 files appear in the "Output files" folder with the UTF-8 encoding |

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|------|--------|--|---|--|
| ST-3 | UR-1.2 | | <p>Stop(shutdown) by Ctrl + C command</p> <p><i>Preparations:</i></p> <p>a) create in any place of a local drive 3 folders: "Input files", "Output files", "Test files" with several valid files</p> <p>b) run the app</p> <p>1. Execute the command: Ctrl + C in the console window</p> <p>2. Put into "Input files" any number of valid input files.</p> | <p>1. The app stops its work.</p> <p>2. The app does not scan "Input files" folder and no new files are in "Output folder"</p> |
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2. Critical path test Checklist

1. Configuration and start with valid parametres
2. Configuration and start with invalid parametres
3. Configuration and start with more than 3 parametres
4. Configuration and start with missing parametres
5. Converting .txt file with WIN1251 encoding (size 100KB)
6. Converting .html file with WIN1251 encoding (50MB)
7. Converting .md file with WIN1251 encoding (10MB)
8. Converting .txt file with CP866 encoding (10MB)
9. Converting .html file with CP866 encoding (100KB)
10. Converting .md file with CP866 encoding (50MB)
11. Converting .txt file with KOI8R encoding (50MB)
12. Converting .html file with KOI8R encoding (10MB)
13. Converting .md file with KOI8R encoding (100KB)
14. Converting any valid file format with valid encoding with size > 50 MB
15. Converting an empty file with valid format, valid encoding
16. Converting a file with unsupported format (.jpg)
17. Converting a file with any supported format containing format-incompatible data
18. Converting an inaccessible file (no access rights, open and blocked,"read only")
19. Log file creation if missing
20. Appending records to an existing log file

3. Critical Path Tests

| № | Requirements № | Module | Sub-Module/Screen | Test Case Description | Expected Results | Comments |
|--------------|------------------------------------|-----------|-------------------------|--|---|----------|
| CPT-1 | UR-1.1 DS-2.1 BR-1 DS-3.2 | Starter | Parameter analyzer | Configuration and start, invalid parameters Preparations: a) install PHP (min.version 5.5); b) install and enable mbstring extension; c) create anywhere on the local drive folder "Test" (C:\Test) and place there "converter.phar" and two separate folders "Input files" and "Output files". 1. Execute in a command line: "php converter.phar C:\Test\SOURCE_DIR1 C:\Test\DESTINATION_DIR2 [LOG_FILE_NAME]" where the SOURCE_DIR1 and DESTINATION_DIR2 do not exist | 1. Application performs shutdown with usage message :“USAGE converter.phar SOURCE_DIR DESTINATION_DIR LOG_FILE_NAME” and shows proper error message indicating incorrect parameter name and value: "Directory not exists or inaccessible" | |
| CPT-2 | UR - 1.1 BR - 1.1 DS -3.2 | Starter | Parameter analyzer | Configuration and start, same source dir and destination dir Preparations: a) install PHP (min.version 5.5); b) install and enable mbstring extension; c) create anywhere on the local drive folder "Test" (C:\Test) and place there "converter.phar" and two separate folders "Input files" and "Output files". 1. Execute in a command line: "php converter.phar C:\test\SOURCE_DIR C:\test\SOURCE_DIR" | 1. Application performs shutdown displaying usage message: “USAGE converter.phar SOURCE_DIR DESTINATION_DIR LOG_FILE_NAME”, incorrect parameter name, value, and error message: "Directory not exists or inaccessible". | |
| CPT-3 | UR-2.2 DS-5.1 DS-5.2 | Converter | File properties scanner | Converting .md file with CP866 encoding (50MB) Preparations: a) install PHP (min.version 5.5); b) install and enable mbstring extension; c) create anywhere on the local drive folder "Test" (C:\Test) and place there "converter.phar" and two separate folders "Input files" and "Output files". d) create a .md file with CP866 encoding sized 50MB 1. Execute in the command line "php converter.phar C:\Test\Input files C:\Test\Output files" 2. Place the .md file with CP866 encoding sized 50MB in the "Input files" folder | 1. The app is running 2. There is a converted .md file with UTF-8 encoding in the "Output files" folder. | |

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|--------------|------------------|-----------|-------------------------|--|---|--|
| CPT-4 | DS-5.1 DS-5.3 | Converter | File properties scanner | <p>Converting, valid format , format-incompatible data</p> <p>Preparations:</p> <p>a) install PHP (min.version 5.5);</p> <p>b) install and enable mbstring extension;</p> <p>c) create anywhere on the local drive folder "Test" (C:\Test) and place there "converter.phar" and two separate folders "Input files" and "Output files".</p> <p>d) create a .jpg file and change its extension into .txt</p> <p>1. Execute in the command line "php converter.phar C:\Test\Input files C:\Test\Output files"</p> <p>2. Place the .txt file (from point d) above) in the "Input files" folder</p> | <p>1. The app is running</p> <p>2. The app detects the files, scans and converts it. The file appears in the "Output files" folder, but its data is damaged.</p> | |
| CPT-5 | UR-3 DS-4.3 | Log file | | <p>Appending records to an existing log file</p> <p>Preparations:</p> <p>a) install PHP (min.version 5.5);</p> <p>b) install and enable mbstring extension;</p> <p>c) create anywhere on the local drive folder "Test" (C:\Test) and place there "converter.phar" and two separate folders "Input files" and "Output files".</p> <p>d) See that there is a logfile "converter.log" in the "Test" folder</p> <p>1. Execute in the command line "php converter.phar C:\Test\Input files C:\Test\Output files"</p> <p>2. Place in the "Input folder" any number of files with valid format, encoding and size.</p> <p>3. Stop the app</p> <p>4. Repeat steps 1-2 for other valid files</p> | <p>1. The app is running</p> <p>2. The app detects, scans and converts the files. Operation records are added to the logfile in the console and the "converter.log" document.</p> <p>3. The app stops running.</p> <p>4. The app is running. It detects, scans and converts the files and their records are added to the logfile tail and to the console.</p> | |