

Pull request: Removes all empty or None values from template_paths

The symptom

After adding the “basicgrid” extension, the following error occurred when the system started up:

```
.....  
File "/home/chuangma/ckan/lib/default/src/ckan/ckan/lib/jinja_extensions.py", line 129, in parse  
    assert searchpath and current_path  
AssertionError
```

After analysis, we discovered the following:

1. Issue location:

In the file `ckan/ckan/lib/jinja_extensions.py`, line 120, there's an assertion:
`assert searchpath and current_path`

2.Problem:

Sometimes both variables (`searchpath` and `current_path`) are simultaneously empty. These variables originate from `config['computed_template_paths']`.

3.Root cause:

The issue stems from `ckanext-basiccharts/ckanext/basiccharts/plugin.py`, where the configuration item `'extra_template_paths'` was modified. The value of this item ends with an extraneous comma.

4.Contributing factor:

In `ckan/ckan/config/environment.py`, lines 205-210, the obtained `'extra_template_paths'` value is directly converted to a list using `split()`. This ultimately results in an empty value within `config['computed_template_paths']`.

5. Solution:

Insert the following line before the line `'config['computed_template_paths'] = template_paths'` in `ckan/ckan/config/environment.py`:
`template_paths = list(filter(None, template_paths))`

Pull request

I've completed and submitted a Pull Request addressing a startup error in CKAN that occurs when using certain extensions.

The screenshot shows a GitHub Pull Request (PR) for the CKAN repository. The PR title is "Removes all empty or None values from template_paths #8416". It is currently open and was created by xiaoliandan, who wants to merge 3 commits from the xiaoliandan:master branch into the ckan:master branch. The PR has 166 pull requests, 591 issues, 2 projects, 7 security issues, and 7 insights. The PR is categorized as a bugfix and has 3 commits, 7 checks, and 1 file changed. The PR is currently in progress and has no reviews. The PR is assigned to wardi and has no labels. The PR has no projects, milestones, or development status. The PR has no notifications and is not subscribed to. The PR has 2 participants. The PR has a checkbox for "Allow edits and access to secrets by maintainers" which is checked.

Removes all empty or None values from template_paths #8416

Open xiaoliandan wants to merge 3 commits into ckan:master from xiaoliandan:master

Conversation 1 Commits 3 Checks 7 Files changed 1 +3 -0

xiaoliandan commented 2 weeks ago

bugfix:

AssertionError

After adding the basicgrid extension, the following error occurred when the system started up:

```
.....
File "/home/chuangma/ckan/lib/default/src/ckan/ckan/lib/jinja_extensions.py", line 129, in parse
assert searchpath and current_path
AssertionError
```

After analysis, we discovered the following:

1. Issue location:

In the file ckan/ckan/lib/jinja_extensions.py, line 120, there's an assertion:
assert searchpath and current_path

2. Problem:

Sometimes both variables (searchpath and current_path) are simultaneously empty. These variables originate from config['computed_template_paths'].

3. Root cause:

The issue stems from ckanext-basiccharts/ckanext-basiccharts/plugin.py, where the configuration item 'extra_template_paths' was modified. The value of this item ends with an extraneous comma.

4. Contributing factor:

In ckan/ckan/config/environment.py, lines 205-210, the obtained 'extra_template_paths' value is directly converted to a list using split(). This ultimately results in an empty value within config['computed_template_paths'].

Solution:

Insert the following line before the line 'config['computed_template_paths'] = template_paths' in ckan/ckan/config/environment.py:
template_paths = list(filter(None, template_paths))

Reviewers

No reviews

Still in progress? Convert to draft

Assignees

wardi

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

Notifications

Unsubscribe

You're receiving notifications because you authored the thread.

2 participants

Allow edits and access to secrets by maintainers

Close the Pull request

Finally, for the reasons shown in the image below, we have closed this pull request.



wardi commented 2 days ago

Contributor



modifying `extra_template_paths` is not the recommended way to add paths to ckan. ckanext-basiccharts should be using `add_template_directory` as shown here: <https://docs.ckan.org/en/2.11/theming/templates.html#replacing-a-default-template-file>

Instead of silently removing empty paths maybe it's better that we generate an error here and have ckan refuse to start. What happens with other template path problems like a directory not existing or causing a permission denied?



Some checks were not successful

[Hide all checks](#)

1 failing and 8 successful checks

- Changelog entries / towncrier (pull_request) Failing after 58s [Details](#)
- Check types / typecheck (pull_request) Successful in 1m [Details](#)
- CodeQL / Analyze (python) (pull_request) Successful in 2m [Details](#)
- Cypress / cypress (pull_request) Successful in 3m [Details](#)
- Lint / lint (pull_request) Successful in 19s [Details](#)
- CodeQL / Analyze (javascript) (pull_request) Successful in 3m [Details](#)

This branch has no conflicts with the base branch

Only those with [write access](#) to this repository can merge pull requests.



Add a comment

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Preview

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Add your comment here...

Markdown is supported

Paste, drop, or click to add files

Close pull request

Comment

Remember, contributions to this repository should follow its [contributing guidelines](#), [security policy](#), and [code of conduct](#).



xiaoliandan commented 3 minutes ago

Author



We appreciate your clarification about the recommended way to add template paths in CKAN. As users of the 'basicgrid' extension, we weren't aware that it was using `extra_template_paths` incorrectly.

Your point about not silently removing empty paths is well-taken. We agree that generating an error and preventing CKAN from starting would be a better approach to highlight configuration issues.



xiaoliandan closed this 3 minutes ago



Pull request closed

If you wish, you can delete this fork of ckan/ckan in the [settings](#).

Reflection

Participating in the CKAN community for the first time through this pull request has been a valuable learning experience. While working to resolve the `AssertionError` related to the `basicgrid` extension, we encountered challenges in understanding the underlying configuration and template path management. The analysis led us to pinpoint the root cause of the issue in `extra_template_paths`, and we proposed a solution to handle empty paths more gracefully by filtering them out. However, through feedback from the CKAN community, we realized that modifying `extra_template_paths` is not the recommended practice for adding template paths, and a better approach would be to use `add_template_directory` as per CKAN's guidelines.

This interaction highlighted the importance of adhering to best practices in open-source projects and reinforced the need to carefully consider the broader implications of proposed fixes. The suggestion to generate an error and prevent CKAN from starting in the event of configuration issues was insightful, prompting us to think more critically about the robustness of the system.