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CLASS: CPSC 362 Assignment 3

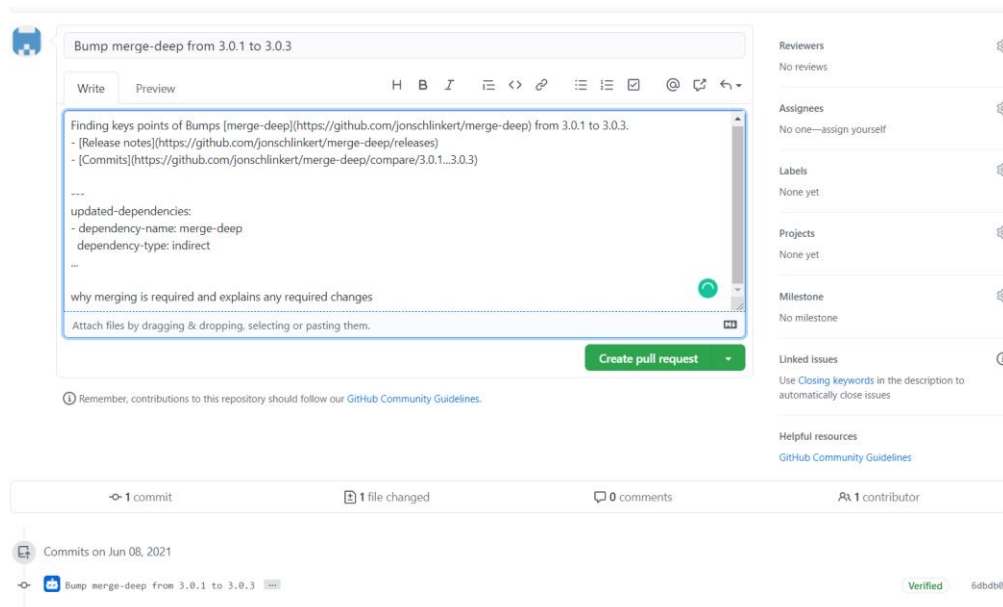
The open-source project chosen is about Kanban Board software. Kanban Board software is specifically developed for the agile project manager to help them while visualizing their work, maximum flow or efficiency, and limit the work-in-progress. Kanban Boards are using the columns, cards, and continuous improvement to assist the project team to commit the right work at the right time to complete it successfully.

Given below are the steps for the Pull/Commit and Merging.

The first code is pulled in the repository, and the link for the original code is

<https://github.com/Harbeeholar/Kanban-Board->

Pull request is opened for the updating dependencies and after updating the dependencies it needs to identify whether the project can run work efficiently or not.



Search or jump to... Pull requests Issues Marketplace Explore

Harbeeholar / Kanban-Board

Bump merge-deep from 3.0.1 to 3.0.3 #1

Merged Harbeeholar merged 1 commit into dependabot/npm_and_yarn/fixstream-1.0.12 from dependabot/npm_and_yarn/merge-deep-3.0.3 9 days ago

Conversation 0 Commits 1 Checks 0 Files changed 1 +4 -5

Harbeeholar commented 9 days ago

Finding keys points of Bumps merge-deep from 3.0.1 to 3.0.3.

- Release notes
- Commits

updated-dependencies:

- dependency-name: merge-deep
- dependency-type: indirect
- ...

why merging is required and explains any required changes

Reviewers: No reviews

Assignees: No one—assign yourself

Labels: None yet

Projects: None yet

Milestone: No milestone

Commit is made in which all changes are updated and dependencies are updated.

Bump merge-deep from 3.0.1 to 3.0.3 Verified 6dbdb02

Add more commits by pushing to the dependabot/npm_and_yarn/merge-deep-3.0.3 branch on Harbeeholar/Project3.

Continuous integration has not been set up
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request You can also open this in GitHub Desktop or view command line instructions.

Milestone: No milestone

Linked issues: Successfully merging this pull request may close these issues. None yet

Notifications: Unsubscribe You're receiving notifications because you're watching this repository.

1 participant

Pull request is merged in the master file

Merged Harbeeholar merged 1 commit into `dependabot/npm_and_yarn/ftstream-1.0.12` from `dependabot/npm_and_yarn/merge-deep-3.0.3` 9 days ago

Conversation 0 Commits 1 Checks 0 Files changed 1 +4 -5

Harbeeholar commented 9 days ago Owner

Finding keys points of Bumps `merge-deep` from 3.0.1 to 3.0.3.

- Release notes
- Commits

updated-dependencies:

- dependency-name: merge-deep
- dependency-type: indirect
- ...

why merging is required and explains any required changes

Bump merge-deep from 3.0.1 to 3.0.3 Verified 6dbdb02

Harbeeholar merged commit 2620f4b into `dependabot/npm_and_yarn/ftstream-1.0.12` 9 days ago Revert

Pull request successfully merged and closed Delete branch

You're all set—the `dependabot/npm_and_y...` branch can be safely deleted.

Write Preview H B I ≡ < > 🔗 📄 📁 🔍 🔔 🔖 🔗

Pull request successfully merged and closed Delete branch

You're all set—the `dependabot/npm_and_y...` branch can be safely deleted.

Notifications Customize

Unsubscribe

You're receiving notifications because you're watching this repository.

Given below is the code for the new dependencies in the package and package-lock file

```

190   },
191   "readmeFilename": "README.md",
192   "devDependencies": {
193     "@types/fs-extra": "5.0.2",
194     "@types/html-entities": "^1.2.16",
195     "@types/lodash": "^4.14.110",
196     "@types/marked": "^0.3.0",
197     "@types/mocha": "^2.2.42",
198     "@types/node": "^7.0.67",
199     "@types/sanitize-filename": "^1.1.28",
200     "tslint": "^5.8.0",
201     "typescript": "2.8.3",
202     "vscode": "^1.1.6"
203   },
204   "dependencies": {
205     "fs-extra": "^0.0.1",
206     "html-entities": "^1.2.1",
207     "humanize-duration": "^3.15.0",
208     "lodash": "^4.17.10",
209     "marked": "^0.4.0",
210     "sanitize-filename": "^1.6.1",
211     "vscode-helpers": "^2.10.3"
212   }
213 }

```

```

"dependencies": {
  "@mrmlnc/readdir-enhanced": {
    "version": "2.2.1",
    "resolved": "https://registry.npmjs.org/@mrmlnc/readdir-enhanced/-/readdir-enhanced-2.2.1.tgz",
    "integrity": "sha512-bPHp6j18b41szTOcaP63V1nbb05Ny6dWAATTY6JTjh5N2OLrb5Qk/Th5cKRQhkwCT+E3sYrNB0MIL+Gpn6e3g==",
    "requires": {
      "call-me-maybe": "^1.0.1",
      "glob-to-regexp": "^0.3.0"
    }
  },

```

Output: Its dependency issue like it was not running and executing on the other operating system except Windows or even in some windows update it is not working perfect as well now it can support the Linux and kali as well

Development Setup

For the installation, it just requires the visual studio to install or run the project the command used is "ext install vscode-kanban" using the Visual Studio Code and its Quick-Open option using the command CTRL+P

Pre-checking

The repository includes the project management project tools and software projects. The new project added or included in the repository will be related to project management tools. Hence, other pre-check of the project includes:

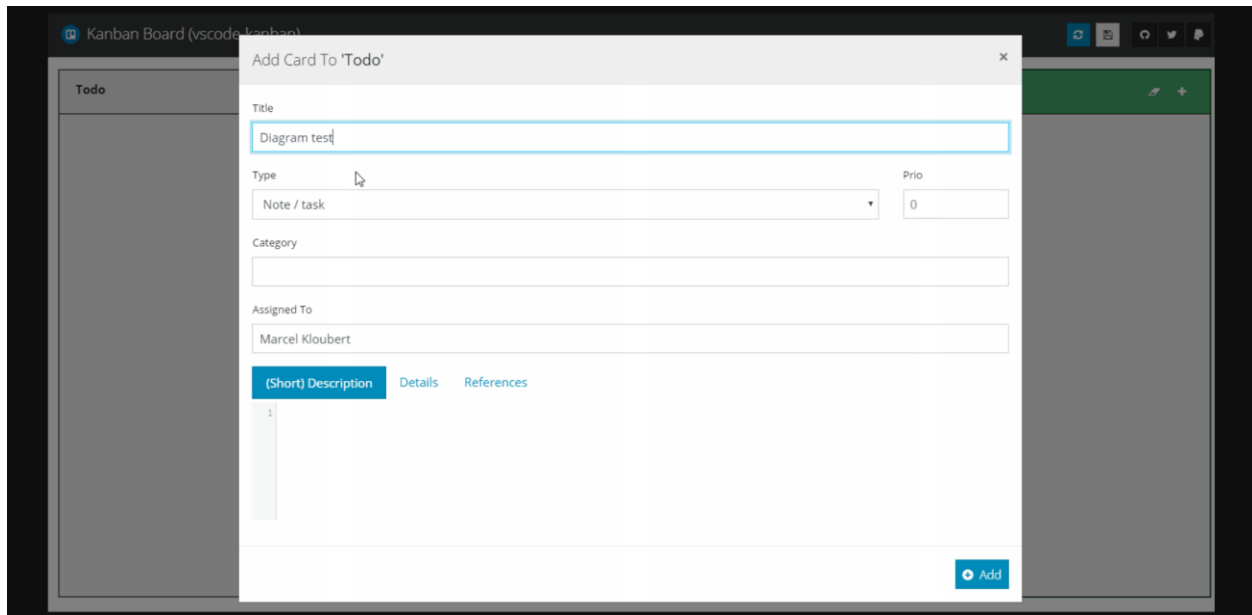
- Kanban Board
- The project lies under and used by the practitioner of project management
- Supports modern and latest programming approaches.
- Support general-purpose programming and development
- Sever some purpose

Code Review

Under-review by the reviewers or waiting for the response of the reviewer

Automated Testing and Check-in

Unit tests are performed and the project will be run simply to review whether it was running like before or not after adding and merging the new dependencies for the system.



Architecture Description

3- Tier architecture is used for the application as this project or software can also be deployed at the severing or online domain using a personal API token that can be identified in the profile settings. Additionally, three-tier architecture is a well-established and developed application architecture that organizes a project into three physical and logical tiers. In which, the first one is the presentation tier, 2nd is the user interface and 3rd one is the application tier where data processing is mainly performed and in the data tier all information and data associated is managed and stored. For the project, each tier is running its infrastructure, and tier development is performed simultaneously as well as would be scaled or updated without impacting any other and require extra tiers. Given below is the architecture of the application is given.

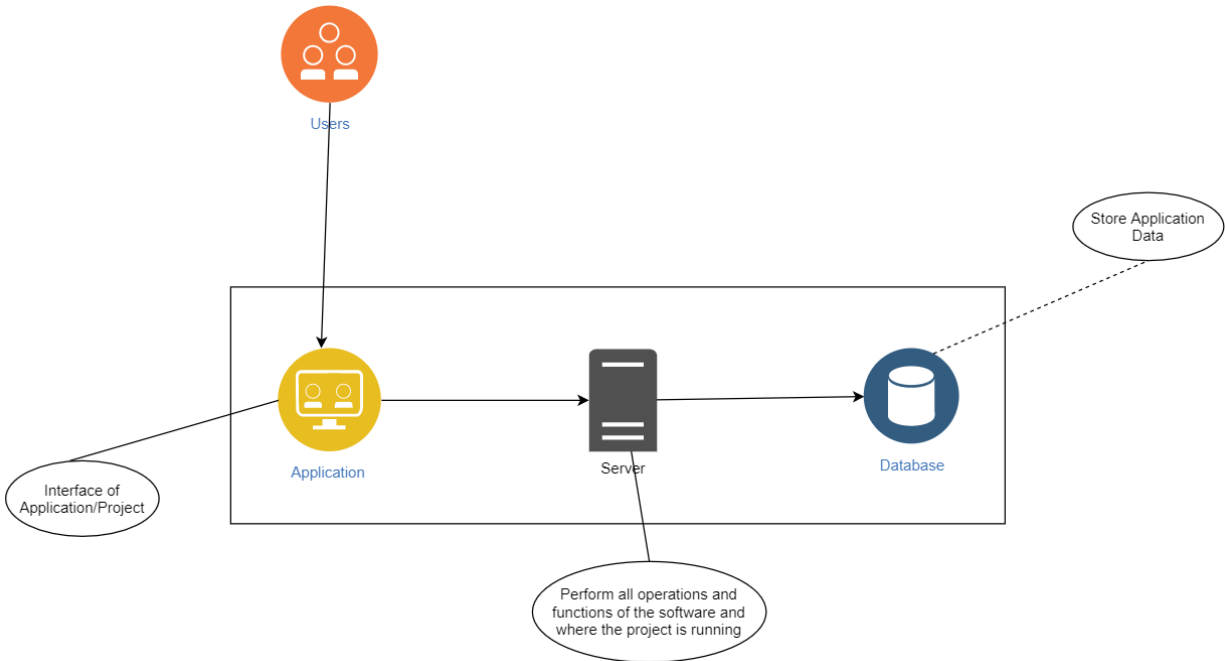
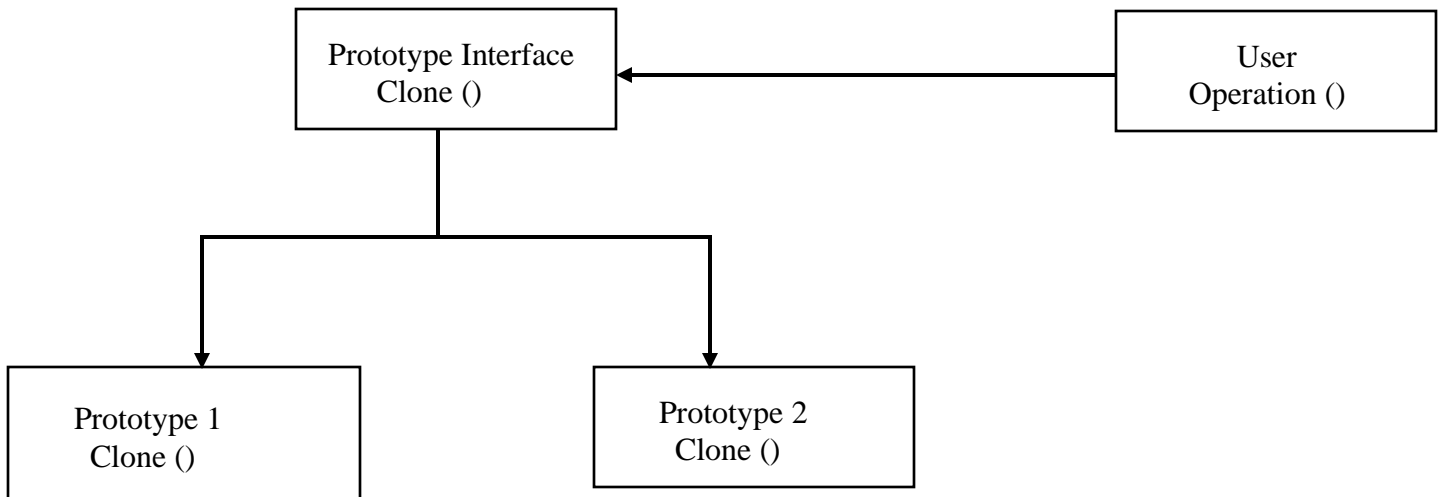


Figure No.1: Project Architecture

Design Pattern

The design pattern used by the project is "Prototype" which is fully initialized by the instances that would be cloned or copied and refined based on the requirement of the developers and users. The code of the project used the abstract class that specified the pure method of virtual cloning and also maintain the cloneable or concrete derived classes. Also, the class required the polymorphic construction and its capability can derive itself from the base and abstract class that registers its prototypical object or instance and clone operation would be implemented. The client or any develop instead of writing the new invokes a new operation on the class that is hard-wired known as cloned over the abstract based class. This also supplies the string or enumerate the data type which can designate the class derived from the concrete and desired class particularly. Here below is the design pattern illustrate that how the pattern helps the developer to refine the code further and improve the chances.

Figure 2: Design Pattern



References

- Schmidt, R. F. (2013). *Software engineering: Architecture-driven software development*. Newnes.
- Stephens, R. (2015). *Beginning software engineering*. John Wiley & Sons.