Day 3: Changelog and Versioning

CHANGELOG.md

Definition: A CHANGELOG and file tracks all changes made to a project, including new features, fixes, and updates. It's essential for documenting project history and helps collaborators or users understand what's new.

Steps to Create a CHANGELOG.md File:

!! SKIP STEP 1 to STEP 3 if you have already run these and have created a new branch for day 3 !!

1. Navigate to Your Project Repository:

cd <path to your repository>

2. Ensure you're up to date with the main branch:

git pull origin main

3. Create a New Branch for Your Work. Naming your branch with the day or feature being worked on is a common practice.

git checkout -b day-3-content

!! SKIP STEP 1 to STEP 3 if you have already run these and have created a new branch for day 3 !!

4. In your project directory, create a markdown file named CHANGELOG.md:

touch CHANGELOG.md

^{© 2024-2025} AgamidCG. All rights reserved. This material is intended for the educational use of registered students in the 14 Day Coder course. Unauthorised reproduction, distribution, or sharing is prohibited. AgamidCG is not liable for any errors, omissions, or outcomes resulting from the use of this information. Please do not share this content with anyone outside the course.

5. Add Initial Text to CHANGELOG.md. Use markdown syntax (see below) to add the changelog format. Start with the title and an initial version entry.

```
# Changelog
## [0.1.0] - YYYY-MM-DD
### Initial Version
```

- Added core functionalities covered in Day 3, including lists, tuples, dictionaries, and sets.
- Implemented changelog and version control instructions.
- 6. Stage, Commit, and Push the Changes:
 - a. Stage the new changelog file:

```
git add CHANGELOG.md
```

b. Commit your changes with a message:

```
git commit -m "Add CHANGELOG.md with initial version
entry"
```

c. Push your branch to the remote repository:

```
git push origin day-3-content
```

Markdown Basics for Changelog Formatting:

Markdown is a lightweight language for formatting text that **renders nicely in GitHub** and many other platforms:

- **Headers** are created with **#** symbols. More **#** symbols mean smaller headers (e.g., **##** for version numbers).
- Bulleted Lists use or *.
- Example Entry:

Changelog

^{© 2024-2025} AgamidCG. All rights reserved. This material is intended for the educational use of registered students in the 14 Day Coder course. Unauthorised reproduction, distribution, or sharing is prohibited. AgamidCG is not liable for any errors, omissions, or outcomes resulting from the use of this information. Please do not share this content with anyone outside the course.

[1.0.1] - 2024-10-26

Fixed

- Corrected typos in the set operations documentation.

SEMANTIC VERSIONING

Semantic versioning is a system for labelling versions using the format: MAJOR MINOR PATCH

• Major

- Increase when making significant changes that break backward compatibility
- o e.g. **v1.0.0** to **v2.0.0**

• Minor

- o Increase when adding new features that are backward compatible
- o e.g. **v1.0.0** to **v1.1.0**

• Patch/Bug/Bump

- Increase when making small fixes or patches that don't change existing functionality
- o e.g. **v1.0.0** to **v1.0.1**

^{© 2024-2025} AgamidCG. All rights reserved. This material is intended for the educational use of registered students in the 14 Day Coder course. Unauthorised reproduction, distribution, or sharing is prohibited. AgamidCG is not liable for any errors, omissions, or outcomes resulting from the use of this information. Please do not share this content with anyone outside the course.