IDEal

Collaborative Python IDE for CMPS 183

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Project Release Plan - IDEal

Team Members

- **Product Owner**: Kevin McCotter
- **Scrum Master**: Max Kerscher-Santelli
- **Team**:
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  - David Sun
  - Greg Biles
  - Nicholas Lampert

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What is IDEal?

- Dynamic collaborative web-based IDE + text editor that can save files locally and on the server
- Users will have the ability to download their source code in addition to an executable file

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Sprint One

- As a python programmer, I want python syntax highlighting and automatic indentation so that I can easily edit code.
- As a developer, I want to be able to save my files to a remote server, as well as view the files of my colleagues.
- As a user, I want to be able to save a file I write on IDEal to my computer.

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Sprint Two

- As a student, I want to be able to easily collaborate with teammates on group projects.
- As a developer, I want to be able to see in real time what my colleagues are writing.
- As a developer, I want to have my file compiled on the server so I can download and run it immediately.
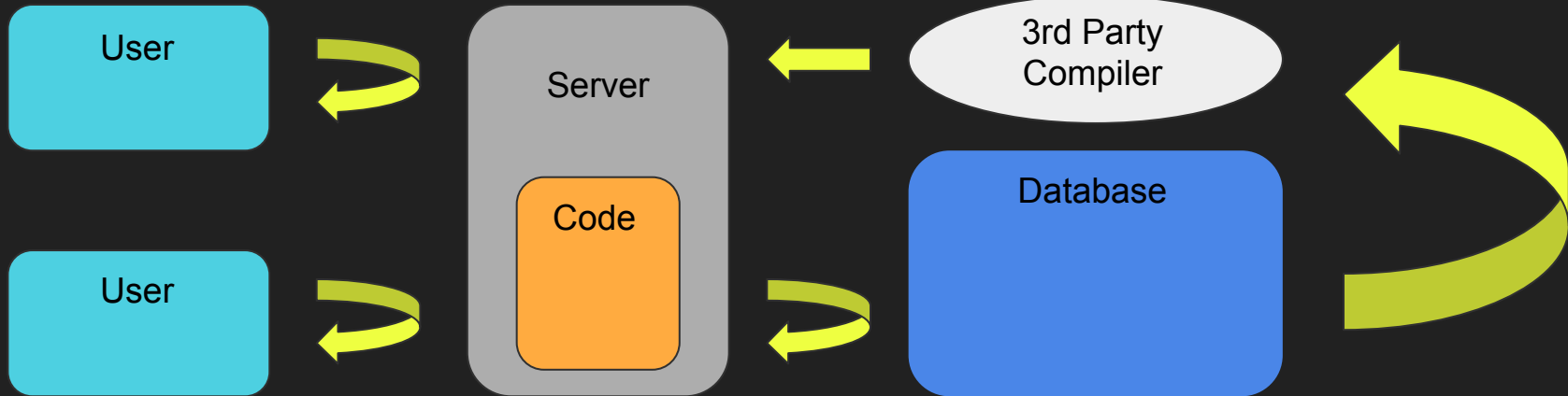
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Sprint Three

- As a developer, I want my IDE to support Java, C++, HTML and Python.
- As a developer, I want to see where the compilation error occurred so I can quickly get back to work.

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Project Architecture

User

User

Server

Code

3rd Party Compiler

Database

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Challenges / Risks

1. Team is unfamiliar with Python
2. Team is unfamiliar with server infrastructure
3. Remote compilation introduces possibility of security vulnerability

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Technologies

1. **Programming languages**: Python, SQL
2. **Web framework**: web2py
3. **Development environment**: local and collaborative via Git
4. **Agile Framework**: Blossom, Slack integrations