Makerspace

Google Cloud

Software Development Lifecycle Automation with Gemini

Demo

Reducing toil Throughout the SDLC

Demo A

From Jira to GitLab: Generating code from user stories

Demo B

Gemini in DevOps: Automating code reviews in GitLab

From Jira to GitLab:
Generating code from user stories

The Old Way:

Manual User Story Implementation

Repetitive coding tasks

Many stories require implementing similar patterns, creating standard structures, and writing boilerplate code.

Prone to errors

Due to misinterpretations of requirements, oversight in complex logic, and simple coding mistakes.

Distracting from critical tasks

Diverts developers' time and energy from more complex problem-solving and higher-level design work

The AI Way: Automated User Story Code Generation

Accelerated Code Generation

GenAI can assist in generating boilerplate code and initial implementations, speeding up development.

Reduced Manual Effort

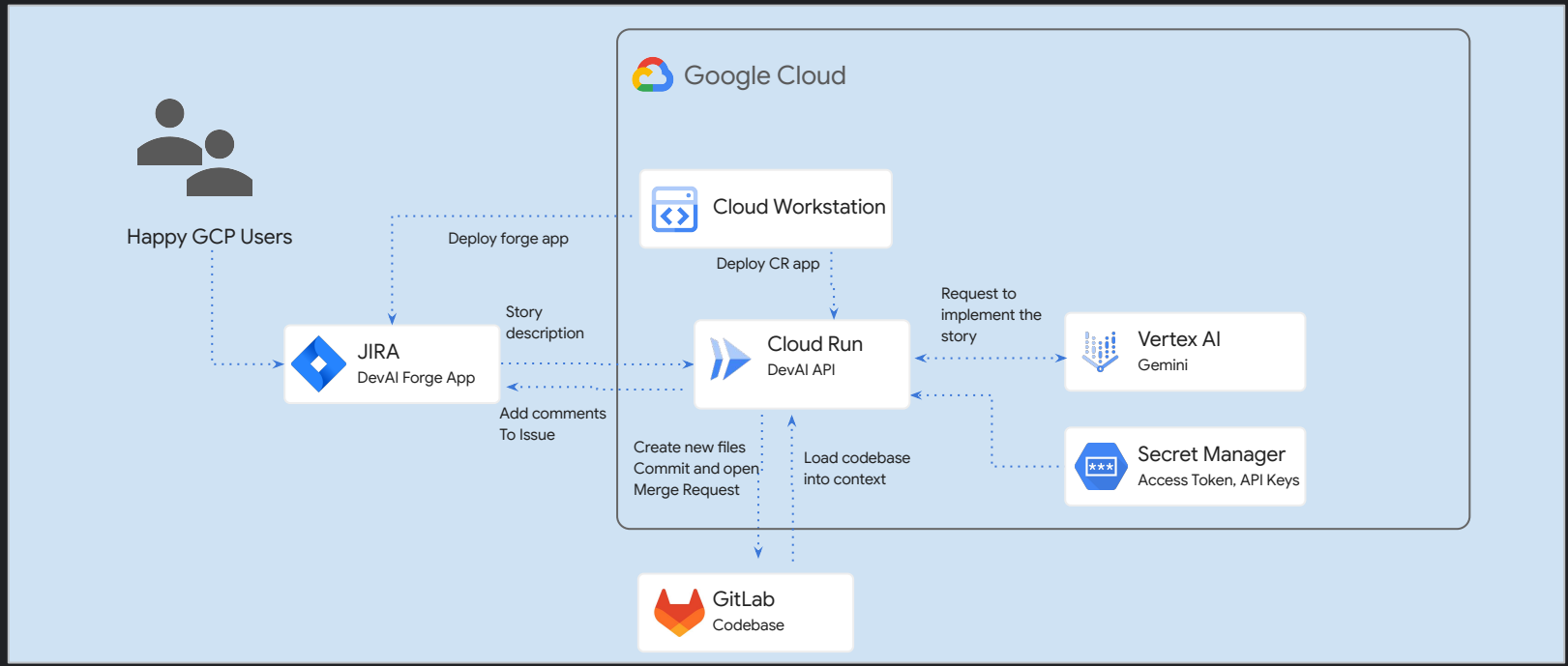
GenAI can automate repetitive coding tasks, freeing up developers to focus on higher-level logic.

Consistent Execution

Automated processes are executed consistently every time, regardless of who is involved. This helps maintain quality and predictability.

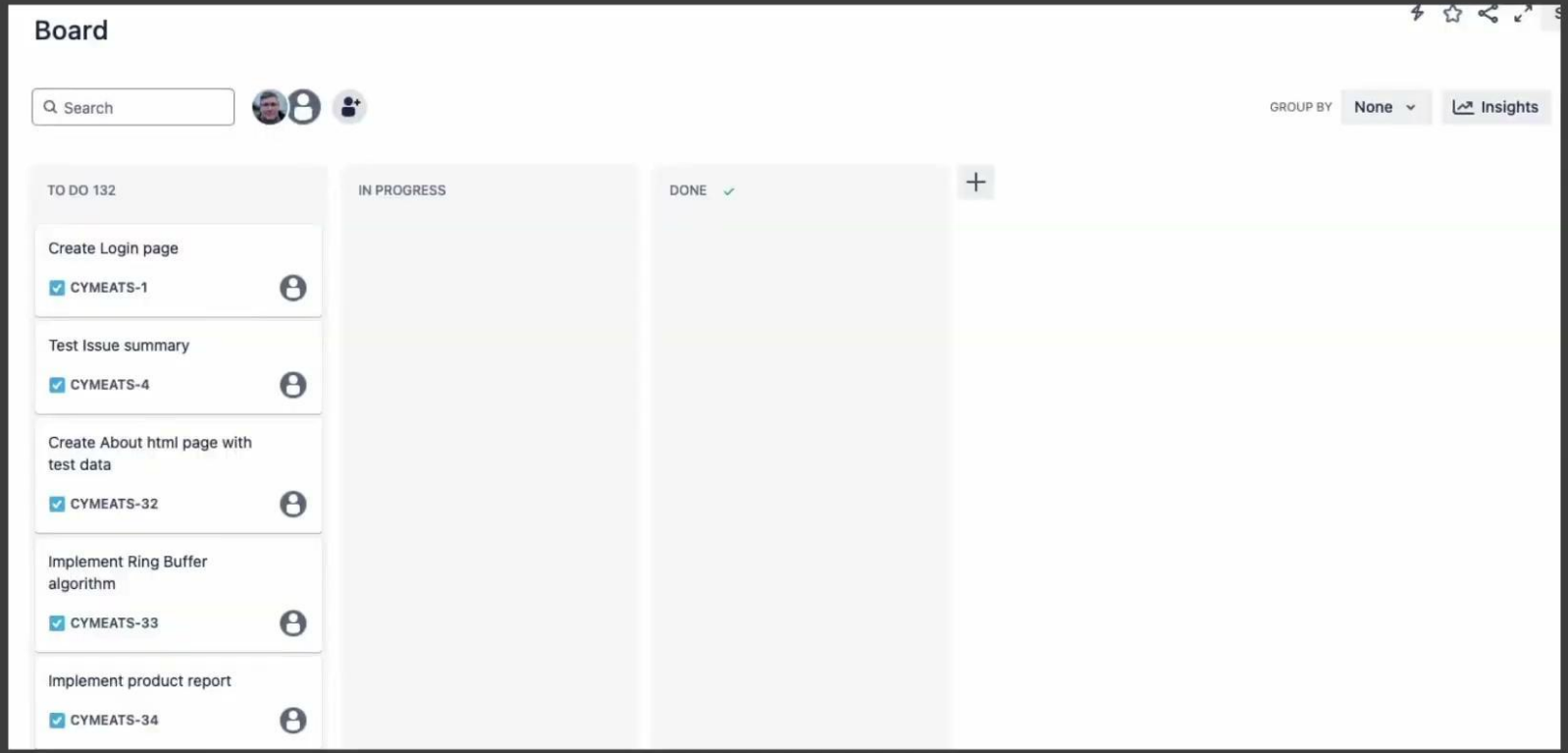
From Jira to GitLab

JIRA user story implementation with Gemini



From Jira to GitLab

Jira to GitLab



Code:

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For more information about our solution and these demos please scan this QR code

goo.gle/next25-devproductivity

Gemini in DevOps:
Automating code reviews in GitLab

Manual Code Review Challenges

Prone to inconsistencies

Due to variations in reviewer expertise, subjective judgment, and fatigue.

Slower release cycles

Due to reviewer availability, the time required for thorough inspection, and potential bottlenecks in the review process.

Time-consuming

Require reviewers to meticulously examine each line of code, understand the logic, and provide feedback.

Benefits of Code Review Automation in your DevOps pipeline

Faster Feedback Cycles

Automated checks provide immediate feedback, reducing the time spent waiting for manual reviews.

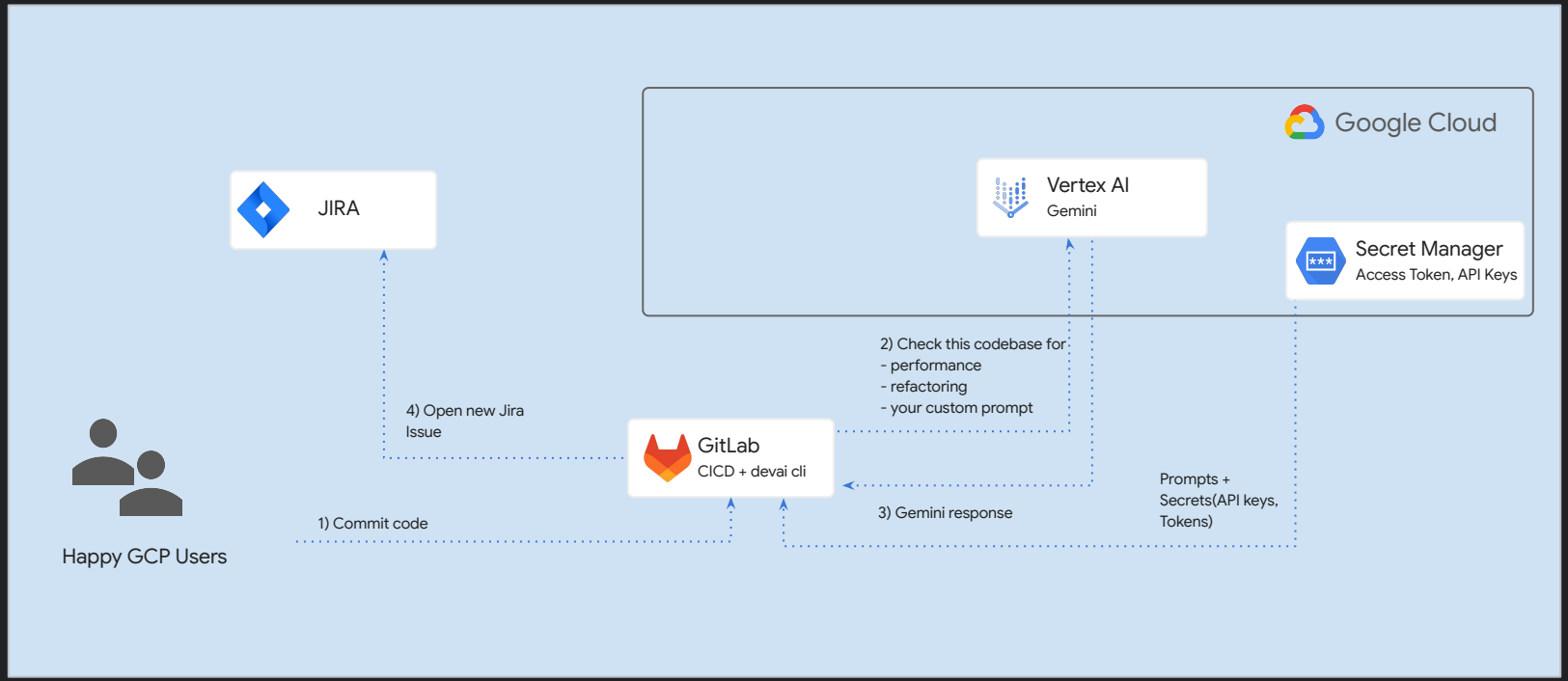
Improved Code Quality

Consistent automated checks enforce coding standards and best practices, leading to fewer defects.

Reduced Reviewer Burden

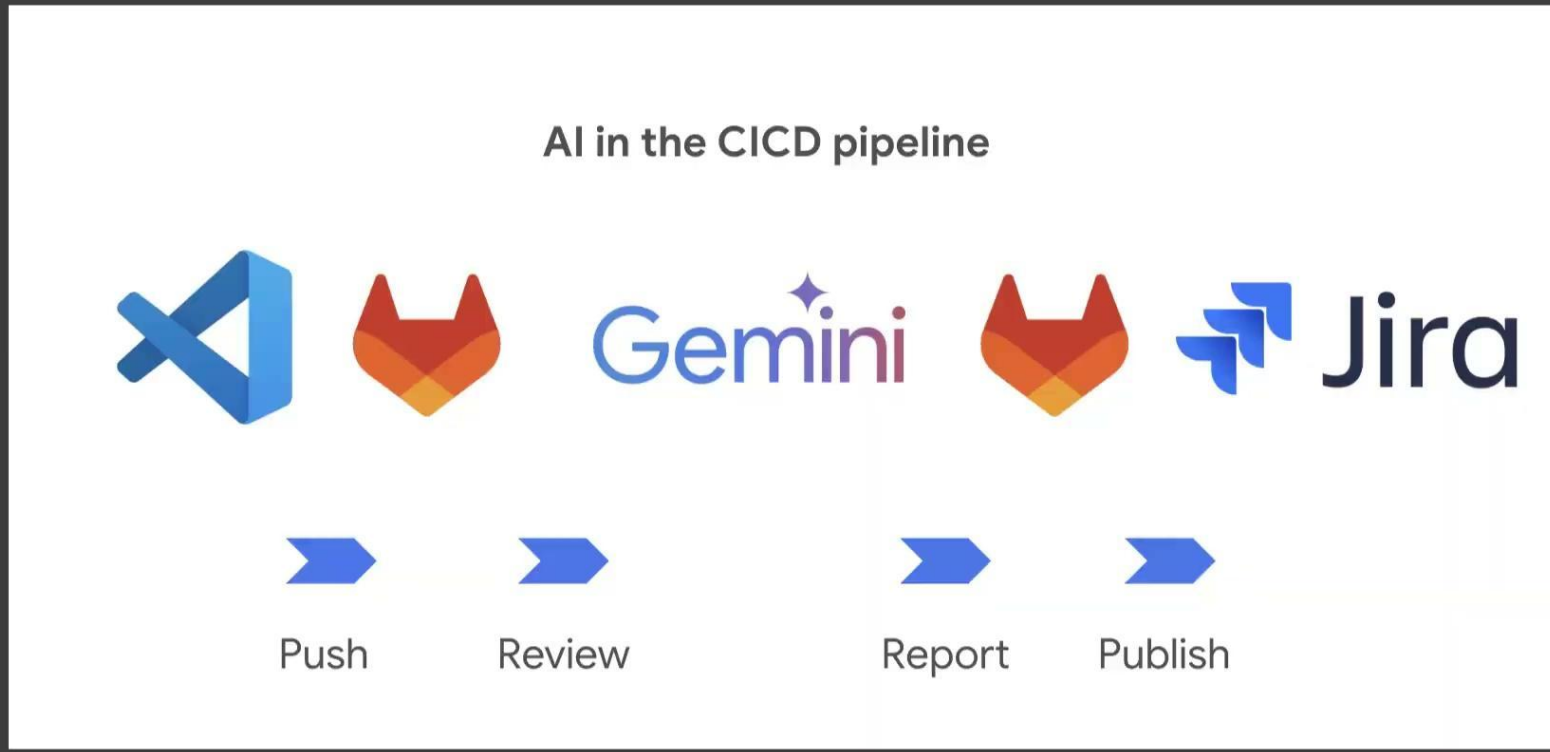
Automating routine checks allows reviewers to focus on more complex logic and design considerations.

Automating code reviews in GitLab



Gemini in DevOps

Gemini in DevOps



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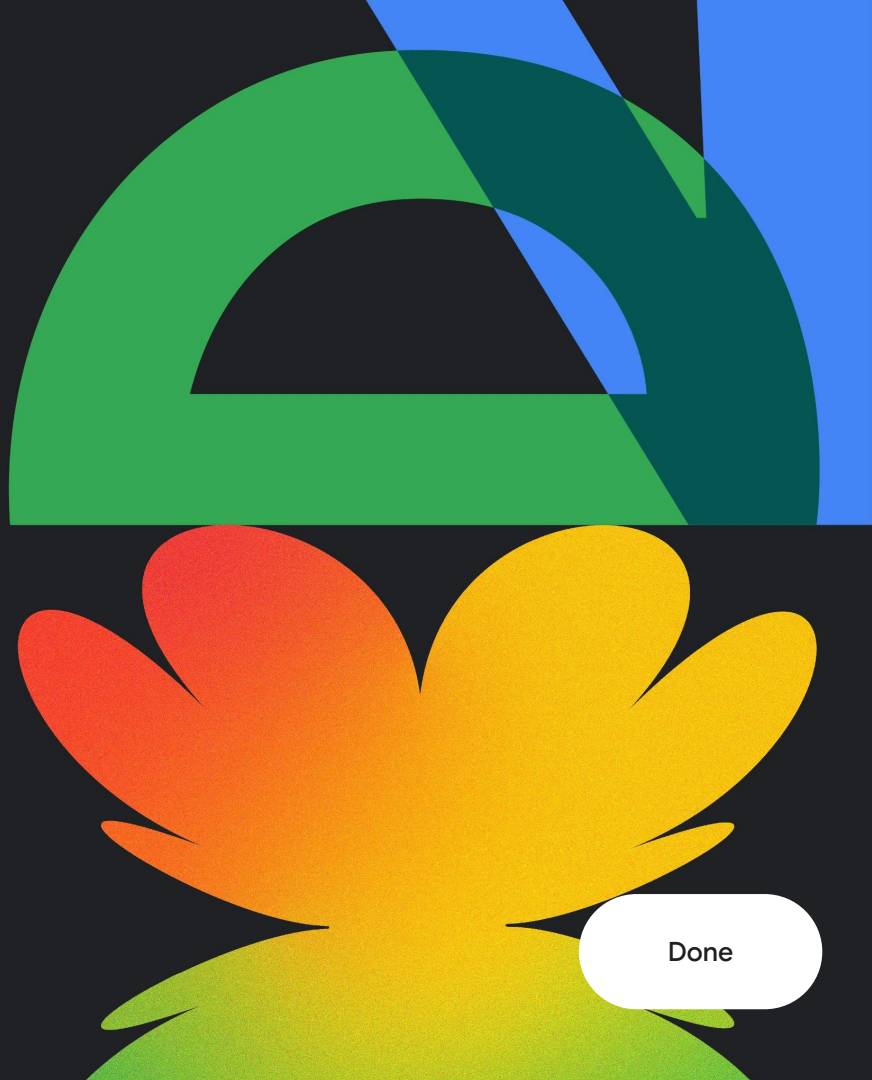

Done

Jira

Gemini
Cloud Run