Team 2

MAGEPlatform

- **Work for the initial team website** : **cs.umb.edu/~hdeblois/cs410/longproj02/t2/**
- Artifact path: /courses/cs410/s26/hdeblois/GROUP2/longproj02/t2
- Research Paper Topic: Password Hashing and BCrypt

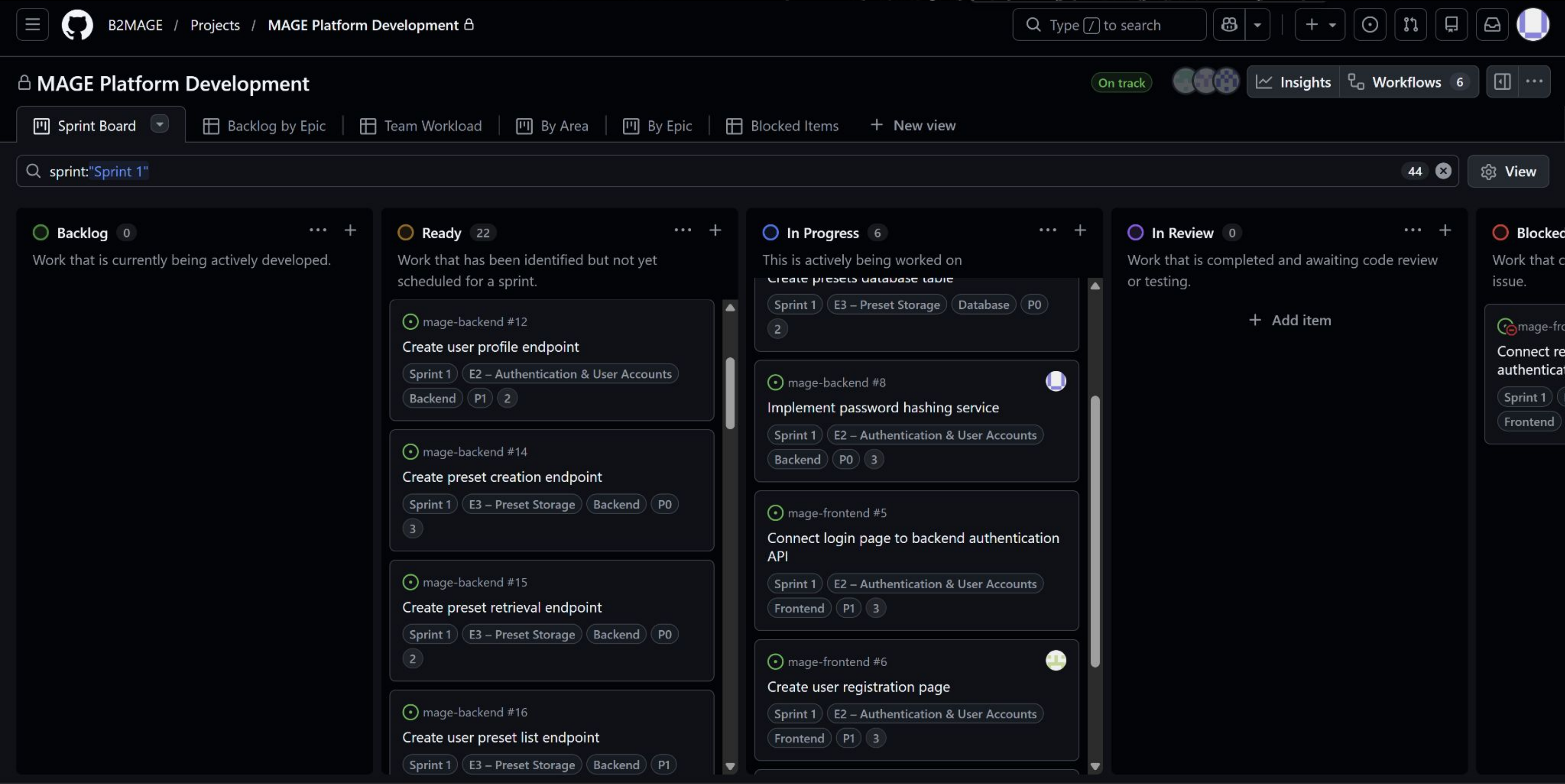
Sprint Board

Github : github.com/B2MAGE

Presented by

Qasim

Isam



B2MAGE / Projects / MAGE Platform Development

Type / to search

MAGE Platform Development

On track

Insights

Workflows 6

Sprint Board

Backlog by Epic

Team Workload

By Area

By Epic

Blocked Items

New view

sprint:"Sprint 1"

44

View

Backlog 0

Work that is currently being actively developed.

Ready 22

Work that has been identified but not yet scheduled for a sprint.

mage-backend #12
Create user profile endpoint
Sprint 1 · E2 – Authentication & User Accounts · Backend · P1 · 2

mage-backend #14
Create preset creation endpoint
Sprint 1 · E3 – Preset Storage · Backend · P0 · 3

mage-backend #15
Create preset retrieval endpoint
Sprint 1 · E3 – Preset Storage · Backend · P0 · 2

mage-backend #16
Create user preset list endpoint
Sprint 1 · E3 – Preset Storage · Backend · P1

In Progress 6

This is actively being worked on

Create presets database table
Sprint 1 · E3 – Preset Storage · Database · P0 · 2

mage-backend #8
Implement password hashing service
Sprint 1 · E2 – Authentication & User Accounts · Backend · P0 · 3

mage-frontend #5
Connect login page to backend authentication API
Sprint 1 · E2 – Authentication & User Accounts · Frontend · P1 · 3

mage-frontend #6
Create user registration page
Sprint 1 · E2 – Authentication & User Accounts · Frontend · P1 · 3

In Review 0

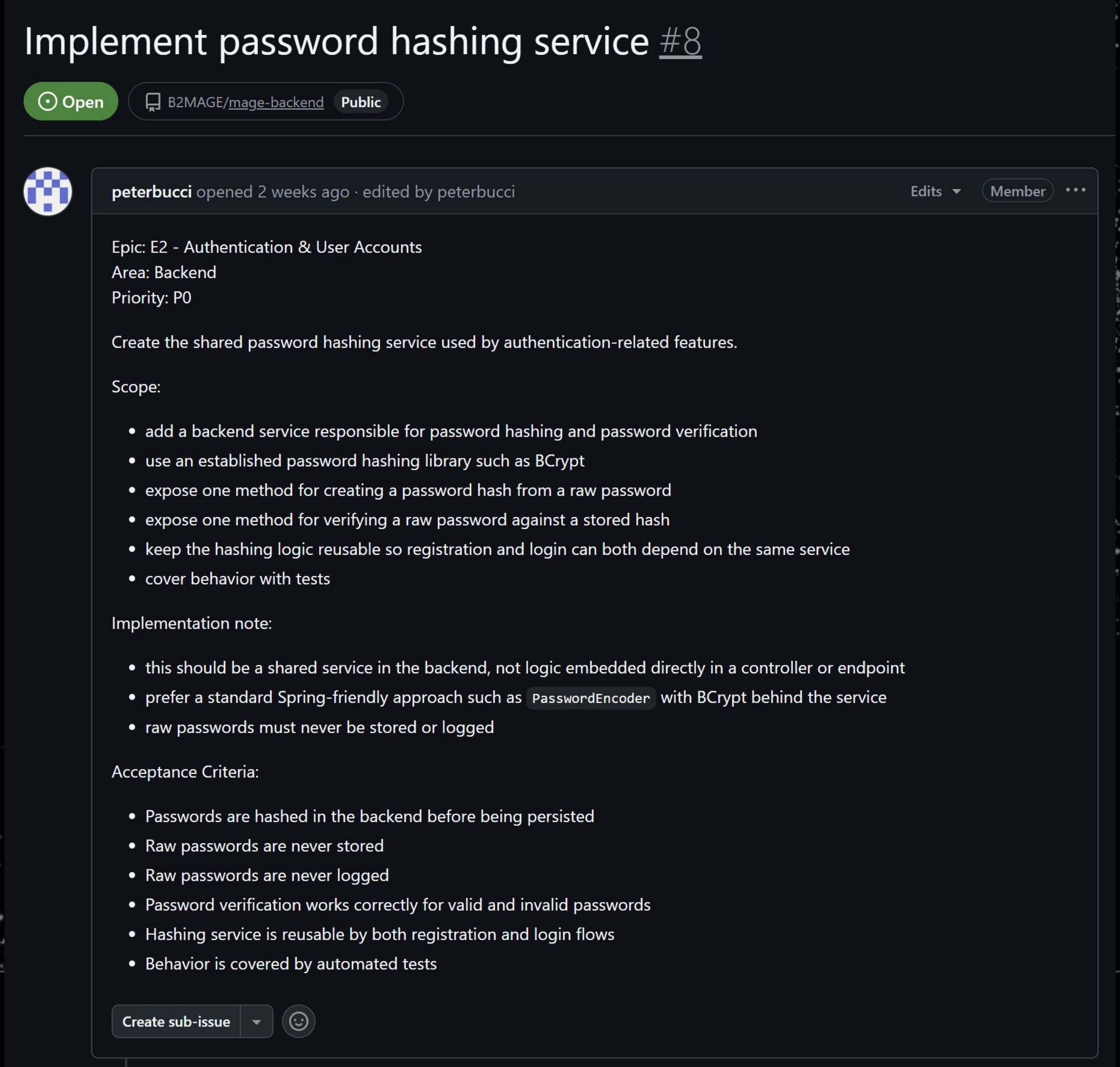
Work that is completed and awaiting code review or testing.

+ Add item

Blocked

Work that c
issue.

mage-fro
Connect re
authentica
Sprint 1
Frontend



Implement password hashing service #8

peterbucci opened 2 weeks ago · edited by peterbucci

Epic: E2 - Authentication & User Accounts
Area: Backend
Priority: P0

Create the shared password hashing service used by authentication-related features.

Scope:

- add a backend service responsible for password hashing and password verification
- use an established password hashing library such as BCrypt
- expose one method for creating a password hash from a raw password
- expose one method for verifying a raw password against a stored hash
- keep the hashing logic reusable so registration and login can both depend on the same service
- cover behavior with tests

Implementation note:

- this should be a shared service in the backend, not logic embedded directly in a controller or endpoint
- prefer a standard Spring-friendly approach such as `PasswordEncoder` with BCrypt behind the service
- raw passwords must never be stored or logged

Acceptance Criteria:

- Passwords are hashed in the backend before being persisted
- Raw passwords are never stored
- Raw passwords are never logged
- Password verification works correctly for valid and invalid passwords
- Hashing service is reusable by both registration and login flows
- Behavior is covered by automated tests