

Pinball Wizard

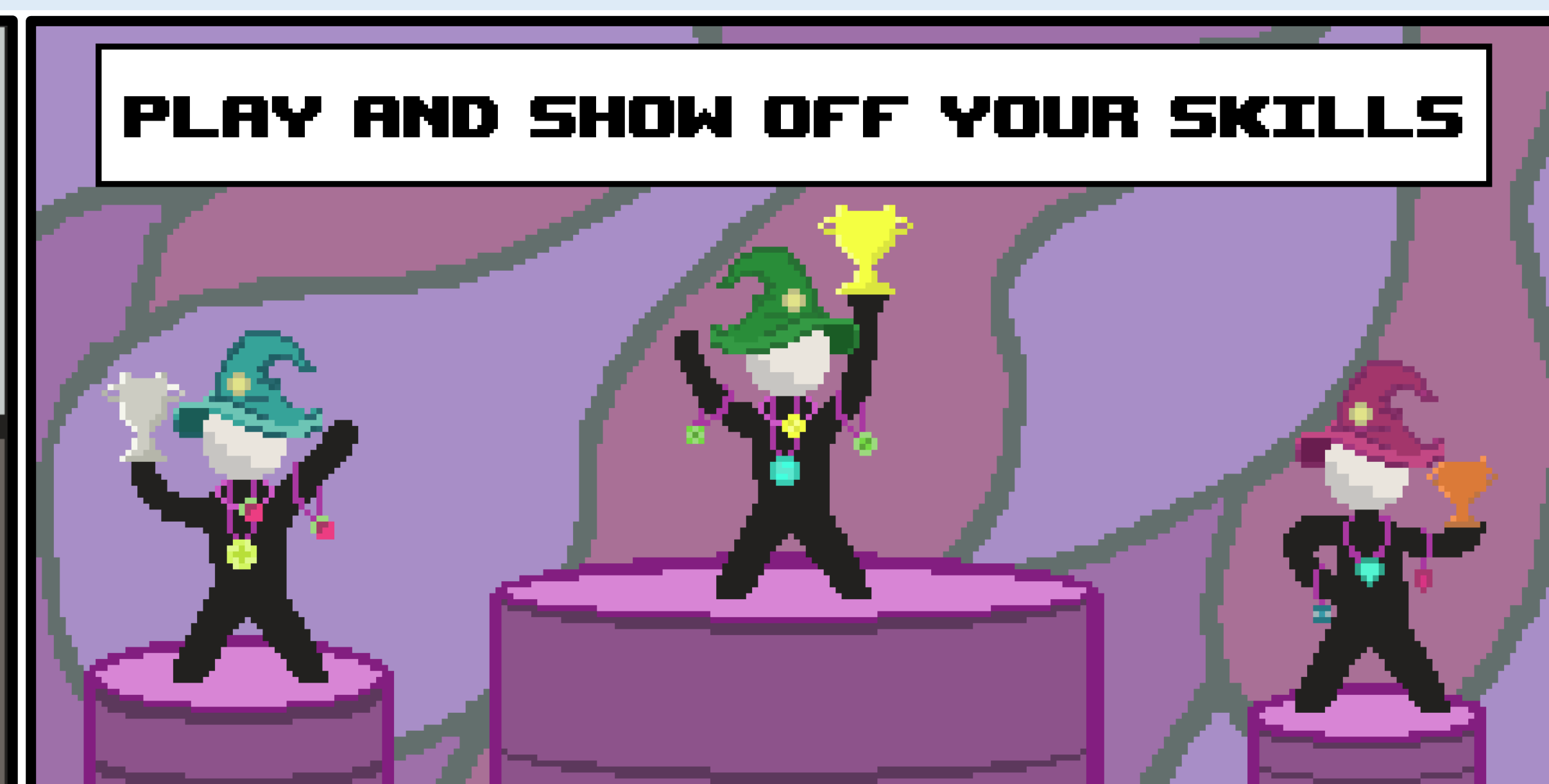
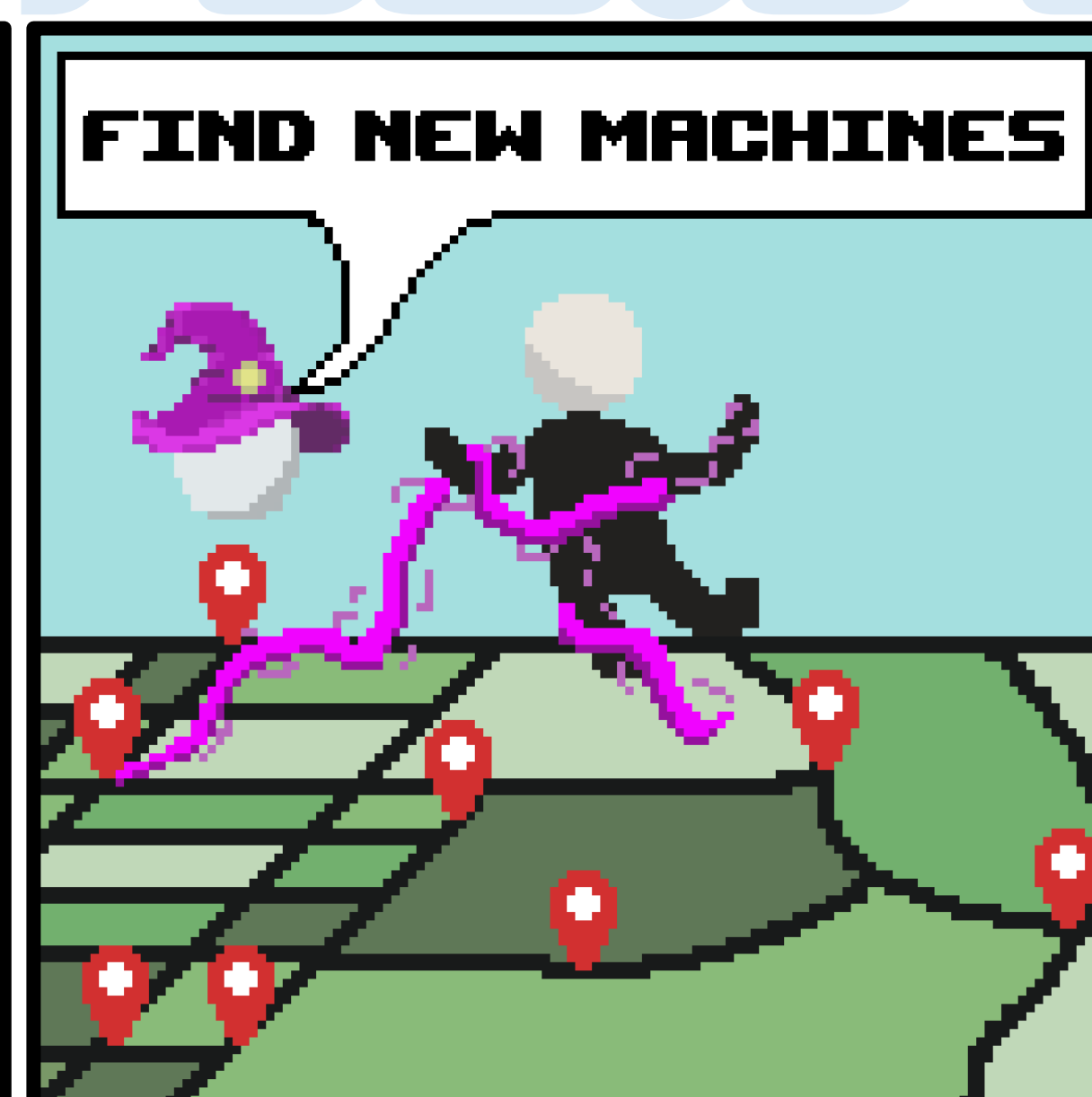
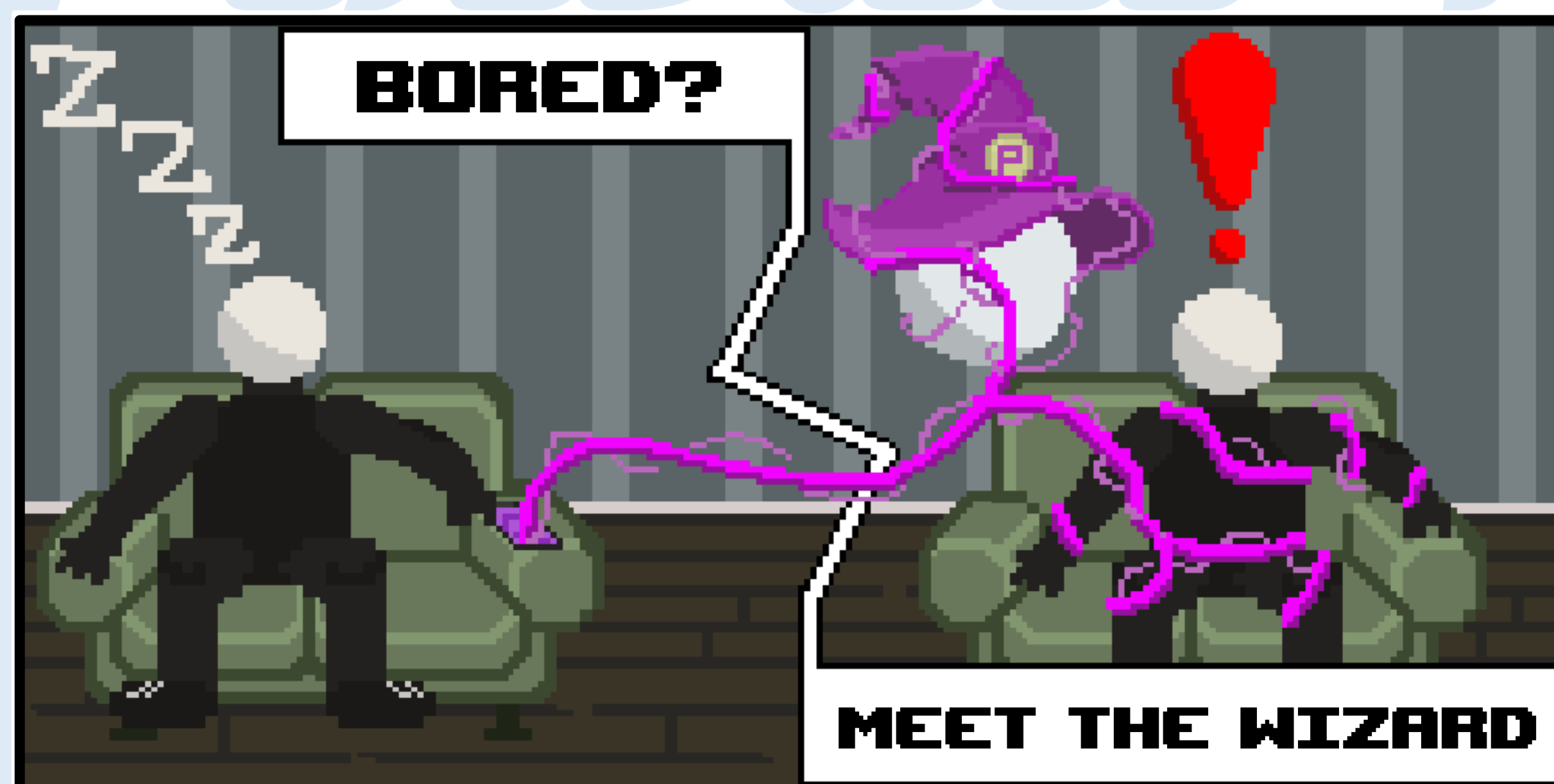
Jacob Beasley

Jonathan Buck

Alex Boots

Micah Erb

Jeddy Waldon



Sponsor: CJ Saretto



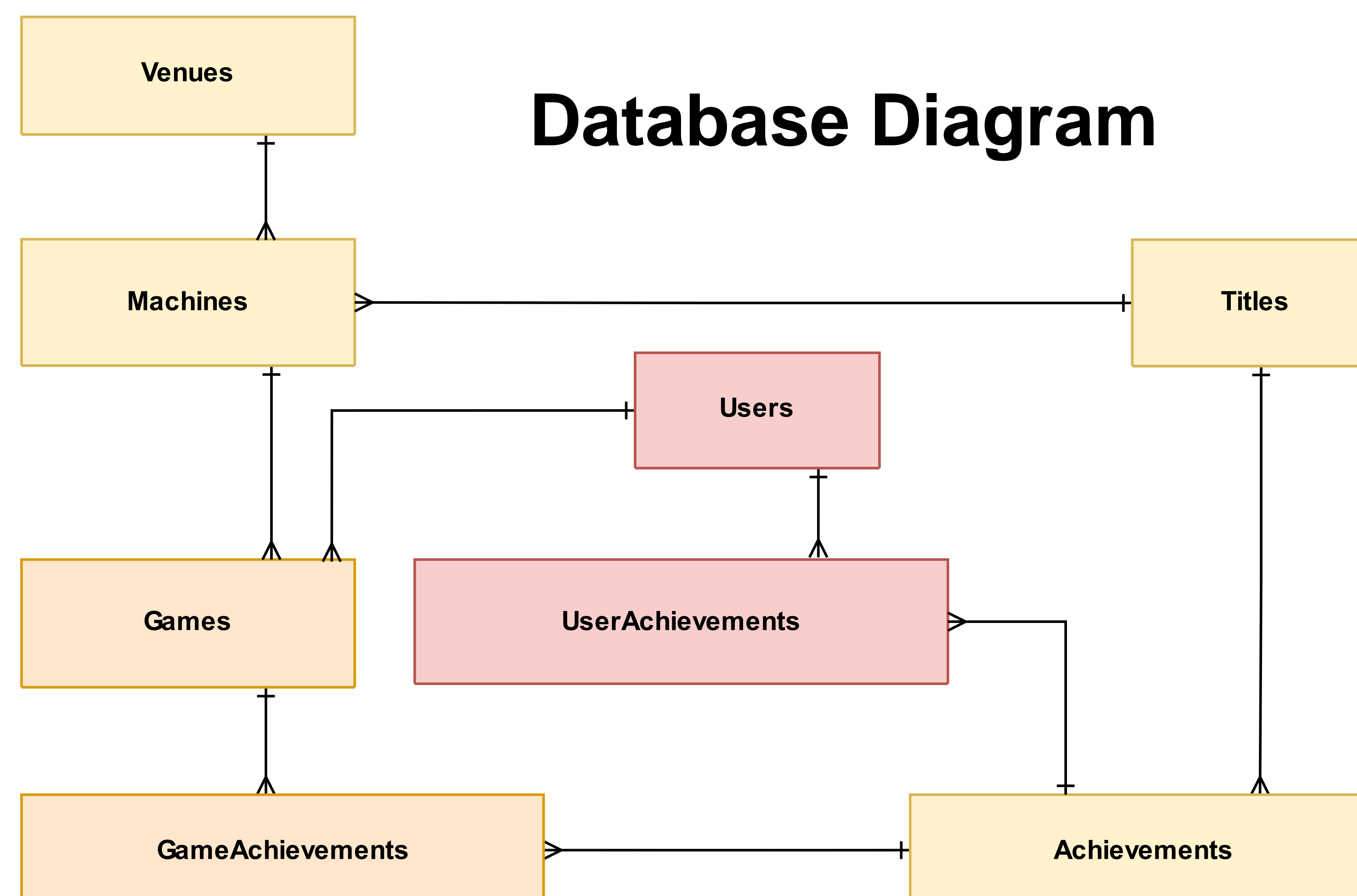
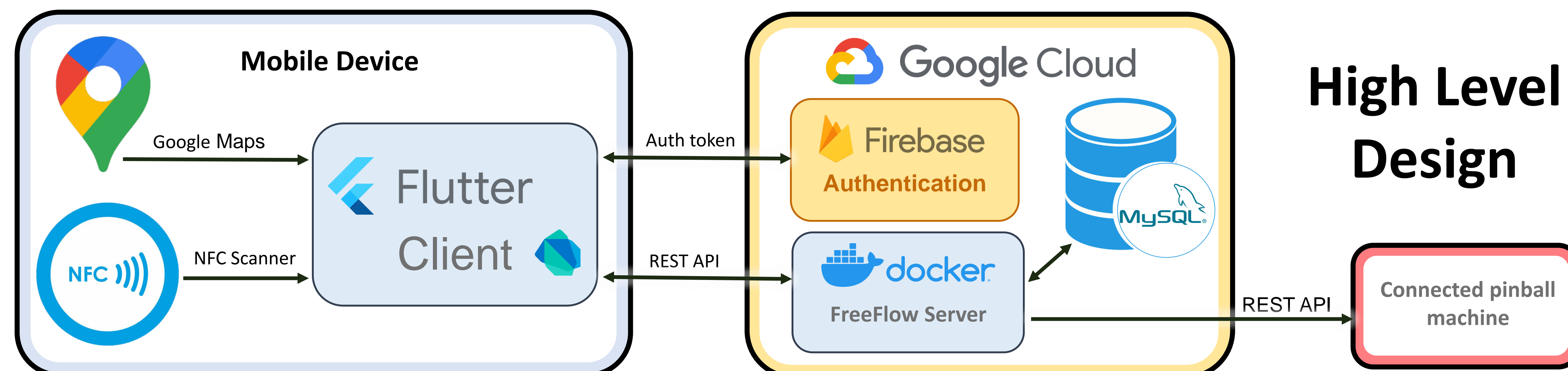
- NCSU Alum and Alumni Hall of Famer
- Started FreeFlow Networks to explore passion projects
- Pinball enthusiast

Background

- New machines in breweries and 'barcades'
- Finding specific titles takes local knowledge
- Ecosystem not approachable to newcomers
- Pinball market resurgence means new users
- Machine leaderboards are inherently local

Project Goals

- **Map:** to find pinball machines in a local area
- **Tap:** a machine's NFC chip to connect a game
- **Record:** scores and achievements from a game
- **Profile:** to show user's achievements and levels
- **History:** of users' previous games and scores
- **Leaderboards:** for global and local competition



Testing

JUnit 5

96% Coverage

Flutter

60% Coverage

Integration Tests
20/20 Tests Passed

Black Box Tests
12/12 Tests Passed

Usability (n = 3)
Larger button size
Contextual prompts
Improved headers