

Sprint 1 Planning Document

What's it Worth?

Sprint Length: 2 Weeks; 1 Unit == 3 Hours

User Stories for this Sprint:

- “I would like to find the value of this Magic: The Gathering card.”

Purpose: This document will outline, subdivide, and assign tasks to group members on the basis of user stories and will also serve as a timeline for first sprint task completion. We will be working in pairs to complete the following tasks:

- *Niraj Venkat and Ben Pietrzak* (Total 10 Units)
 - (3 Units) Implement edge detection routine in order to detect potential card regions.
 - (3 Units) Utilize perspective correction on the source image's card regions to undistort the source image.
 - (2 Units) Generate Hessian blobs from perspective corrected image based on source image.
 - (2 Units) Compile and populate database of Hessian blobs by running our SURF implementation on downloaded database of stock images.
- *Sam Dickson and Theo Reinke* (Total 8 Units)
 - (4 Units) Design and implement a multi-threaded Java server to handle client requests.
 - (1 Unit) Interface with card detection to retrieve Hessian blobs for card.
 - (1 Unit) Interface with database manager to retrieve card information from precomputed database of blobs.
 - (1 Unit) Return identifying card information to client and close connection.
 - (1 Unit) Construct database to store data on the server
- *Nick Bachman and Kaileen Kraemer* (Total 8 Units)
 - (2 Units) Build Android client UI.
 - (3 Units) Interface between mobile client and server.
 - (2 Units) Contact TCGPlayer for card information and display results as an overlay on the screen.
 - (1 Unit) Provide optional sound effects and smooth jazz while image recognition is running.