



Sponsor: Bit Tag Technologies Inc.
Proposed Start Date: September 2015.
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Capstone Intern| Northern Arizona University

Project Description

Sharing and exploring specific pieces of complex web pages and pictures can be nearly impossible. Bit Tags are iconographic meta tags that users publish on to web page content to point to specific content of interest. It's like Facebook face tagging, expanded to any content type, on any webpage. The prototype of this tagging technology is already built and can be explored at www.bittagbox.com. Feel free to install our Chrome extension prototype by clicking on the content tiles.

There are several aspects of the product vision that we still need to refine and make robust. Several discrete apps may be developed via our existing API to augment the prototype product. Fall semester will be spent getting familiar with what we have already built, and then developing a clear app development scope. Spring semester will be dedicated to actual development of selected "apps".

Possible specific apps to build on top of our API include:

1. A mobile app for Android and iOS capable of replicating Bit Tag browser app functionality.
2. Business to consumer communications app; Linking businesses to consumer with questions.
3. Content discovery app; Relating tags to each other, and to other rich media in an automated manner.

We are open to other suggestions from students, too. The requirements for the above app concepts still needs to be specified, and you will have latitude in defining, building and implementing selected apps. Front-end UI design and UX considerations will be coordinated with high-level business objectives. The process will be challenging, but fun, and will result in a product that the entire Internet can benefit from.

Technical Skills and Expertise Requirements

Specific experience with GitHub, AJAX, JSON, Javascript, JQuery, SQLs(No SQLs), APACHE, HTML5, PHP technologies would be ideal. Some familiarity with Google, Facebook, Pinterest, Wikipedia and Twitter API families would be helpful.

Equipment Requirements

You must host your own development environment, on your own machine with a stable Internet connection.

Deliverables

You will provide regular reports to our Managers regarding product UI and back-end scopes and progress, and you will provide general constant feedback about the product as we iterate. Specific development deliverables scopes can be specified in the Fall of 2015 based on specific apps of interest, and individual capabilities. You will primarily work remotely. You will be invited to development and design "standups" to be as involved in the big picture, as much as is reasonable. You will provide feedback and manage your development tasks in Asana.com, tracking your time as you work.

We look forward to your interest, questions and feedback!