## Mandated Constraints

### Solution Constraints

Description: The product shall use a GPS to communicate with the database.

Rationale: The client wishes to receive information about an animal he took a picture of.

Fit Criterion: Default setting for devices with GPS capability shall be set to "enabled".

Description: The product shall use a camera.

Rationale: The client wishes to take a photo of an animal to save for later or to receive further information on.

Fit Criterion: The device must have a built-in camera.

Description: The product shall operate on Android and Apple devices.

Rationale: The product is to be readily available for different mobile users.

Fit Criterion: The product shall be cross-platform to be able to run on several mobile software platforms.

Description: The product shall be easy to use for the client.

Rationale: The client wants to be able to navigate the home screen with ease, take a picture of an animal, view their gallery, view the animal's information, or change their settings.

Fit Criterion: A small testing group will be used to test the number of clicks it takes to perform a desired action. 90% must be able to take a picture of an animal and view its page in under 5 clicks.

Description: The product shall allow the user to enable or disable GPS.

Rationale: The client wishes to save battery or has chosen to disable the GPS during their first time setup.

Fit Criterion: The option shall be available in the settings page.

Description: The product shall show the user all available animals in a local area.

Rationale: The client wishes to look at information for other animals.

Fit Criterion: GPS must be enabled for the user to receive information from the database and view the animals within the local area.

### Implementation Environment of the Current System

The application will be installed onto the user's handheld device. Regardless of whether the user wishes to use the application for work or personal reasons, it should work the same. For best results, the user should enable GPS to enjoy the full capability of the application.

### Partner of Collaborative Applications

IBEIS will be one of the collaborative operations.

### Off-the-Shelf Software

The application uses the mobile platform's built-in store in order for the user to use it. It is dependent on IBEIS for the consistent ecological information on animals.

### Anticipated Workplace Environment

The user can run the application anytime as long as it is installed into the device. Once installed, the user should enable the GPS to be able to fully use the application. However, if the user wishes to disable the GPS, he will be unable to send pictures of the animal to the database.

### Schedule Constraints

The product development and its testing should meet the planned deadlines.

### Budget Constraints

N/A

### Enterprise Constraints

N/A

## Naming Conventions and Terminology

### Definition of All Terms, Including Acronyms, Used by Stakeholders Involved in the Project

IBEIS - Image-Based Ecological Information System

GPS - Global Positioning System