**Requirements**

**Features:**

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| *GPS will need to be accurate*  GPS will be used to gather longitude and latitude information of device.  NOTE: Start device advanced location upon start of the application |

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| *A search function that can filter results*  A streamline search function with parameters OR a filter option to show already loaded results.  NOTE: Gather relevant info about map filters; type of sea turtle, environmental hazards, time to hatch, etc. |

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| *A way to add descriptions to nests*  Before uploading nest locations, details such as environmental factors/hazards, species, pictures, and approximate nesting creation will be able to be populated. |

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| *I would love to see a program that also incorporates sea turtle rehabilitation*  This is will not be included in initial lunch but can be a possible update in the  future. |

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| *Local and global data retrieval*  An option to download either local or global information.  NOTE: Add a map interface that can be enlarged or decreased to cover a specific geographical location. Then download information for that location depicted. |

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| *Getting and organizing volunteers*  A list of users, their activities (uploads), and locations according to devices running the app can be populated to organize volunteers. |

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| *A message system for volunteers*  Either a chat system, forum, or bulletin board in the application specific to each organization to disseminate information. |

**Security:**

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| *Secure database information*  All information will be full disk encrypted, network hardening will be common practice, and industry cyber security protocol will be baselines in assuring all data will be protected.  NOTE: Application upload and downloads will be fully encrypted. |

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| *Vetting process for access to application and data*  Case by case basis for Hello\_World administrators and personnel. A review of the applications and small investigation of the organization will be performed.  NOTE: Streamlined vetting process will be needed in the future. |

**Usability:**

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| *Easy to use interface*  All options, toggles, and “buttons” should be as self-descriptive as possible and need to perform the function they are explicitly intended to.  NOTE: Training time for application should be kept to absolute minimum. |

**Data:**

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| *Offline capability*  Application will be able to operate in an “offline mode” which will upload data once the device receives a single. |

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| *Quick access to data*  On demand access to data within the application that will either upload or download instantly.  NOTE: Signal type, bandwidth, and mbps need to be considered. |