StormWare Requirements

# Domain

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| Stakeholders | Goals |
| Owner , Manager, Designer, Developer, Quality Assurance, Professor, TAs | Develop stable, maintainable, robust software that locates dangerous areas with respect to natural disasters, and aids in natural disaster research.  Ensure development process is structured and organized. |
| Users (Disaster researchers, environmental scientists, general public) | Use StormWare to determine disaster prone areas and use that information to create efficient solutions to disaster management.  Helps government agencies to track trends and accordingly determine locations that are suitable for city development projects. |

# Functional requirements

* The application is an Android app
* The application reserves the datasets
* The application uses Google map API
* Users can input the location and the application will return the relevant natural disasters in this area by heatmap

# Non-Functional requirements

* Look and Feel Requirements
  + The application should provide an easy and clear page for users to operate
  + Useful information (such as disaster types, date, magnitude) should be easily accessible
* Usability Requirements
  + The software must be simple for a person aged above 12 in able condition to understand and use all its features
  + The application shall make it easy for the average user to locate their destinations
* Performance Requirements
  + Other than search (which can take long), the application shall respond to a user request in less than 10 seconds
* Cultural and Political Requirements
  + The application should not display any offensive text or information
* Maintainability and Portability Requirements
  + The application should update its datasets from time to time in order to keep the accuracy of information
* Legal Requirements
  + The application shall comply with all relevant information privacy acts

# Development and Maintenance

* Java doc will be provided for all modules
* Each module will be thoroughly tested
* Information hiding will be present for the maintainability and reusability (private and immutable state variables, classes, etc.)
* Each task will be rigorously logged
* Weekly meetings to discuss project progress and future plans