Featurama

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**1. Project Definition (**100 - 200 words**)** – *Group responsibility*

* *Why* it is needed?
* *What* is the idea (Overall goal) of the project?
* *Who* does it help (What is your target audience)?
* *How* will it be achieved (what is your solution)?

**2. Project Requirements** – *Group responsibility*

* Functional
* Usability
  + User interface
  + Performance
* System
  + Hardware
  + Software
  + Database
* Security

**3. Project Specification** – *Group responsibility*

* Focus / Domain / Area
* Libraries / Frameworks / Development Environment
* Platform (Mobile, Desktop, Gaming, Etc)
* Genre (Game, Application, etc)

**4. System – Design Perspective** – *Group responsibility*

* Identify subsystems – design point of view
  + Illustrate with class, use-case, UML, sequence ..... diagrams
  + Design choices (Optional)
* Sub-System Communication (Diagram and Description)
  + Controls
  + I/O
  + DataFlow
* Entity Relationship Model (E-R Model)
  + Example - <https://en.wikipedia.org/wiki/Entity%E2%80%93relationship_model>
* Overall operation - System Model
  + Simplified Sub-system to System interaction

**5. System – Analysis Perspective** – *Group responsibility*

* Identify subsystems – analysis point of view
* System (Tables and Description)
  + Data analysis
    - Data dictionary (Table - Name, Data Type, Description)
  + Process models
    - Queries performed on the data and their time complexity for each subsystem.
* Algorithm Analysis
  + Big - O analysis of overall System and Sub-Systems

**6. Project Scrum Report -** *Group Responsibility*

* Product Backlog (Table / Diagram)
* Sprint Backlog (Table / Diagram)
* Burndown Chart

**7. Subsystems**

**7.1 Subsystem 1** – Name 1 - *Individual responsibility*

* Description
* Initial design and model
  + Illustrate with class, use-case, UML, sequence ..... diagrams
  + Design choices
* Data dictionary
* If refined (changed over the course of project)
  + Reason for refinement (Pro versus Con)
  + Changes from initial model
  + Refined model analysis
  + Refined design (Diagram and Description)
* Scrum Backlog (Product and Sprint - Link to Section 6)
* Coding
  + Approach (Functional, OOP)
  + Language
* User training
  + Training / User manual (needed for final report)
* Testing

**7.2 Subsystem 2** – Name 2 - *Individual responsibility*

* Initial design and model
  + Illustrate with class, use-case, UML, sequence ..... diagrams
  + Design choices
* Data dictionary
* If refined (changed over the course of project)
  + Reason for refinement (Pro versus Con)
  + Changes from initial model
  + Refined model analysis
  + Refined design (Diagram and Description)
* Scrum Backlog (Product and Sprint - Link to Section 6)
* Coding
  + Approach (Functional, OOP)
  + Language
* User training
  + Training / User manual (needed for final report)
* Testing

**7.3 Subsystem 3** – Name 3 - *Individual responsibility*

* Initial design and model
  + Illustrate with class, use-case, UML, sequence ..... diagrams
  + Design choices
* Data dictionary
* If refined (changed over the course of project)
  + Reason for refinement (Pro versus Con)
  + Changes from initial model
  + Refined model analysis
  + Refined design (Diagram and Description)
* Scrum Backlog (Product and Sprint - Link to Section 6)
* Coding
  + Approach (Functional, OOP)
  + Language
* User training
  + Training / User manual (needed for final report)
* Testing

**7.4 Subsystem 4** – Name 4 - *Individual responsibility*

* Initial design and model
  + Illustrate with class, use-case, UML, sequence ..... diagrams
  + Design choices
* Data dictionary
* If refined (changed over the course of project)
  + Reason for refinement (Pro versus Con)
  + Changes from initial model
  + Refined model analysis
  + Refined design (Diagram and Description)
* Scrum Backlog (Product and Sprint - Link to Section 6)
* Coding
  + Approach (Functional, OOP)
  + Language
* User training
  + Training / User manual (needed for final report)
* Testing

**8. Complete System** – *Group responsibility*

* Final software/hardware product
  + Small description of the project as a conclusion.
* User manual
  + Screenshots of app usage, user walk through.
  + Admin walk through.
* Source code
  + Github Link
* Team Member Descriptions

***This is just a guide, and use it to create/improve your report. Feel free to add sections. You are responsible for your own subsystem/s, not other members. You have to contribute to the team’s goals and objectives, and develop your subsystem/s, write your documents and slides.***

**Overview**

Currently, the Internet is a bit of a mess. No one knows what is real? what is fake? up, down, left, right, etc. If we want to know what friends are up to, we go to Facebook or Instagram or Twitter. If we want to watch something, we go to Netflix, or YouTube, or Hulu, or Amazon. If we want to sell ourselves to a company, we go to LinkedIn, or Monster, or Indeed, or Handshake. What if, instead of crawling all over the Internet to get what we wanted, we had the Internet come to us? What if we had our own domain that was fed with our specific interests, wants, and desires?

Welcome, Featurama. Featurama is the website that features an individual user's specific interest. A user creates a profile that asks for what the user is interested in. Based on the user's feedback, a website is created for the user that the user can populate it with what they want. It will marry idea of social networking of Facebook with the pinned boards of Pinterest, but instead of boards, users can create lists that they share and like to create social commentary with other like users.