**Hackathon Project Phases Template** for the **AutoSage App** project.

**Hackathon Project Phases Template**

**Project Title:**

**Fashioning**

**Team Name:**

kyatham and team

**Team Members**

* vennela
* shruthi
* swecha
* keerthana

**Phase-1: Brainstorming & Ideation**

**Objective:**

clothing provides protection, comfort,cultural expression,identity,fashion,wormth,modesty,profeshionalism,status,style,durability,versatility,trends ,confidence,function,creativity,tradition,aesthetics,and personal expression

**Key Points:**

1. **Problem Statement:**

1. fit and sizing issues
2. sustainability and environmental impact
3. comfort and functionality
4. cost and accessibility
5. cultural and social factors
6. durability and maintenance
7. technological integration
8. **Proposed Solution:**

**1)smart sizind and fit solution**

**2)sustainable and ecofriendly materials**

**3)enhanced comfort and functionality**

**4)cultural and inclusive design**

**5)integration of technology in clothing**

1. **Target Users:**

**1)**.general consumers

      2)professionals and office workers

      3)childrens and parents

      4)people with dissabilities

1. **Expected Outcome:**

        1)boost in consumers confidence brand loyalty

        2)integration of technology in clothing

        3)cultural and social impact

**Phase-2: Requirement Analysis**

**Objective:**

comfort, durability, sustainability,fit,style,functionality,innovation,accessibility

**Key Points:**

1. **Technical Requirements:**

* Programming Language: **Python**
* Backend: **java script , python**
* Frontend: **HTML,CSS,java script**
* Database: **my SQL,fire base , no SQL data bases**

1. **Functional Requirements:**

* Ability to **fashion clothing using python**
* Display **specifications, reviews, and comparisons** in an intuitive UI.
* Provide **fashion designing cloths depends on tradition,style,season etc**
* Allow users to **comfort,fashioning,traditional etc**

1. **Constraints & Challenges:**

* Ensuring real-time updates from **fashioning website**
* Handling **liked designs and wanted fashion wears**
* Providing a different type of cloths like party wear,traditional wear, etc

**Phase-3: Project Design**

**Objective:**

Develop the fashioning designing wear cloths and  flow of the application.

**[Concept Design] → [Research & Ideas] → [Sketching & Draft] → [Fabric Selection] → [Pattern Making] → [Prototype Testing] → [Final Approval] → [Production Start] → [Quality Control] → [Distribution]**

**Key Points:**

1. **System Architecture:**

 Smart Clothing Systems

 Supply Chain and Inventory Management for Clothing

  E-Commerce System Architecture for Clothing Retail

 Sustainability in Clothing Systems

 Data Security and Privacy for Clothing Systems

1. **User Flow:**

* Concept Development
* Design Research and Idea Generation

 Manufacturing and Production

1. **UI/UX Considerations:**

* **User-Centered Design**
* .Designing for Customization
* User Feedback and Guidance

**Phase-4: Project Planning (Agile Methodologies)**

**Objective:**

Break down development tasks for efficient completion.

|  |  |  |
| --- | --- | --- |
| **Stage** | **Description** | **Key activitiess** |
| 1. Concept Development | Initial idea and theme for the clothing collection. | - Brainstorming design concepts  - Identifying target audience  - Trend research and inspiration gathering (fashion shows, magazines, nature, etc.) |
| | **2. Market Research** | **Description** | **Key Activities** | | --- | --- | --- | |  | Initial idea and theme for the clothing collection. | - Brainstorming design concepts  - Identifying target audience  - Trend research and inspiration gathering (fashion shows, magazines, nature, etc.) | |  |  |  | | Understanding market demand and consumer preferences. | - Analyzing consumer needs  - Studying competitors and similar designs  - Reviewing customer feedback and current trends |
| 3. Sketching and Drafting | Creating rough designs to visualize concepts. | - Drawing preliminary sketches  - Experimenting with shapes, cuts, and styles  - Finalizing key design elements |
| 7. Prototype Creation | Creating a sample garment based on patterns and selected fabrics. | - Cutting fabric pieces  - Sewing the garment prototype  - Testing garment fit and function |
| 10. Final Approval | Approving the design for production | - Approving final prototype  - Confirming production specs (fabric, pattern, color)  - Getting approval from stakeholders (team or clients) |
| 4. Packaging & Labeling | Preparing garments for shipment or retail display. | - Packaging garments for distribution  - Adding tags, labels, and care instructions  - Wrapping and boxing for retail or shipping |

**Sprint Planning with Priorities**

**Sprint 1 – Sprint Planning and Initial Design Tasks (Day 1)**

 Complete initial **market research** and **mood board**.

 Narrow down the **concept** for the collection.

 Start creating the first **sketches** of the designs.

 Ensure the team is aligned on the direction of the project.

**Sprint 2 – Refining Designs and Preparing for Prototype (Day 2)**

 Finalize **design sketches**.

 Begin **fabric selection** and **pattern making**.

 Prepare for prototype creation in the coming days.

**Phase-5: Project Development**

**Objective:**

Implement clothing designing features by an website

**Key Points:**

1. **Technology Stack Used:**

* **Frontend:** HTML
* **Backend:java script**
* **Programming Language:** Python

1. **Development Process:**

* Research trends, fabrics, colors, and styles.
* Develop fabric swatches, color palettes, and prototype garments
* Adjust designs based on feedback before mass production and distribution.

1. **Challenges & Fixes:**

* **Challenge: Balancing creativity with production feasibility.**

**Fix: Use advanced design software for virtual prototypes, collaborate early with manufacturers, and consider cost-effective materials and production methods from the start.**

* **Challenge: Sustainability and Ethical Sourcing**

**Fix: Use eco-friendly materials, adopt sustainable production practices, and work with suppliers who prioritize ethical labor practices and transparency**

**Phase-6: Functional & Performance Testing**

**Objective:**

Ensure that the AutoSage App works as expected.

|  |  |  |
| --- | --- | --- |
| Testing type | . Description | Purpose |
| Wearability Testing | Assess comfort, mobility, and practical use (e.g., walking, sitting). | Ensure garment is comfortable and functional |
| Fabric Performance Testing | Evaluate resistance to abrasion, pilling, fading, moisture-wicking, and UV protection. | Ensure fabric durability and functionality. |
| Fit and Size Consistency | Test garments on different body types and use 3D fitting tools. | Confirm accurate fit and sizing across ranges |

**Final Submission**

1. **Project Report Based on the templates**
2. **Demo Video (3-5 Minutes)**
3. **GitHub/Code Repository Link**
4. **Presentation**