1. Write three personas for the users of the portal mentioned above.

The personas should include Name, Role, Goals, Typical system

usage, Preferences, and any other information relevant to the

product.

Persona 1: Name: TOM HAWKINS

Role: FARMER

Goals: Access accurate weather data for crop planning which

includes sowing seeds, cutting and stocking of crop, receive timely

alerts for severe weather conditions, and access historical weather

patterns for analysis.

Typical System Usage: Regularly accessing the portal to view

weather forecasts, satellite images, and seasonal precipitation data.

Subscribes to receive severe weather advisories.

Preferences: Prefers a user-friendly, intuitive interface and values

the ability to access precise weather data for crop optimization.**Smart Weather Project Without JIRA**

**SMART WEATHER PROJECT – WITHOUT JIRA**

**1. Write three personas for the users of the portal mentioned above. The personas should include Name, Role, Goals, Typical system usage, Preferences, and any other information relevant to the product.**

**Persona 1: Name: TOM HAWKINS**

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**Preferences:** Prefers a user-friendly, intuitive interface and values the ability to access precise weather data for crop optimization.

Persona 2: Name: AMY CARTEIR

Role: EVENT MANAGER

Goals: Needs reliable weather forecasts for organizing outdoor

events, understand visitor behaviour based on weather conditions,

and plan event logistics according to weather insights.

Typical System Usage: Frequently checks the portal for current

weather conditions, forecasts for upcoming events, and seasonal

precipitation trends. Utilizes the satellite images and time-lapse

videos for strategic event planning.

Preferences: Values the accuracy of weather forecasts, requires

mobile app integration for on-the-go weather monitoring, and

seeks user-friendly interfaces for quick accessibility.

**Persona 2: Name: AMY CARTEIR**

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**Preferences:** Values the accuracy of weather forecasts, requires mobile app integration for on-the-go weather monitoring, and seeks user-friendly interfaces for quick accessibility.

**Persona 3: Name: NICKY HELEY**

**Role: Health Professional**

**Goals:** Monitor weather-related health risks, access data on seasonal illnesses, and receive alerts for weather conditions affecting public health.

**Typical System Usage:** Regularly uses the portal to monitor forecasts of seasonal illnesses and weather patterns impacting public health. Requires access to historical data for research and analysis.

**Preferences:**  Seeks precise weather data for tracking health-related trends, values personalized seasonal forecasts, and prioritizes access to severe weather advisories for public  health planning.

**2. Identify at least five epics and 15 user stories from the case above (use your interpretation and independent research). Link the stories to the epics.**

**EPIC 1**

**User Registration and use the portal or App.**

User story 1- As the user I need to easily sign up for the registration on the portal, so I can use the services.

User story 2 - As the user I want to choose between the free or the paid version of the website.

User Story 3- As a system I can provide the access control the paid subscribers.

**EPIC 2**

**Build weather system data integrations and data management.**

User story 4 – As a system I need to build integrations with public weather services around the world.

User Story 5- As a system I need to Detect locations based on GPS (if on a device) or IP.

User Story 6- As a system I need to create a schema and a database for storing weather data based on location all over the world.

**EPIC 3:**

**Weather data presentation and advisory**

User Story 7-As a system I can show the current weather at allocation.

User Story 8 – As a system I can show forecasts for five, ten, and fifteen days at a location.

User story 9 - As a system I can show the Provide seasonal forecasts like seasonal precipitation and temperatures.

User story 10 - As s system I need to provide severe weather advisory to registered users on the portal.

EPIC 4: Weather Data Management and Visualization

User Story 11-As a user, I want to view current weather conditions

at a specific location with detailed insights.

User Story 12-As a user, I want to access forecasts, satellite

images, and time-lapse videos for weather monitoring and analysis

EPIC 4: Weather Data Management and Visualization

User Story 11-As a user, I want to view current weather conditions

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**EPIC 4:**

**Weather Data Management and Visualization**

User Story 11- As a user, I want to view current weather conditions at a specific location with detailed insights.

User Story 12- As a user, I want to access forecasts, satellite images, and time-lapse videos for weather monitoring and analysis.

**EPIC 5:**

**App Development and API Services**

User Story 13 - As a user, I want the system to provide mobile apps for iOS and Android phones with easy weather data access.

User Story 14 - As a developer, I want to access the published API or services for client apps and integration with third-party systems.

User Story 15 - As a developer, I want to add a provision for advertisements on the portal and apps.

**3. Identify the minimally viable product considering the goal of the organization is to launch quickly and rapidly improve and expand the product footprint.**

The MVP prioritization will allow the team to focus on essential features while providing a foundation for future improvements and expansions. Based on the identified epics and user stories, the MVP for the Smart Weather portal could include the following: -

* User registration for both free and paid users
* Integration with public weather services
* Location Given detection based on GPS or IP
* Display of current weather at a location
* Provide severe weather advisory to registered users on the portal.
* Basic forecast for the next 5 days at a location
* A simple, responsive design for the portal
* Basic apps for IOS and Android

**4. Propose a scaling model for this team given that different teams might be working on development of the main system, interfaces and integrations, bespoke apps, maintenance and support.**

**Scaling Model -**This scaling model provides a framework to manage the project’s expansion efficiently as the product grows and evolves.

**Development Team:** The development team can be organized into sub-teams to focus on specific aspects of the project, such as backend development, frontend development, and mobile app development. Each sub-team can be responsible for delivering the core functionalities of the Smart Weather portal, including user registration, weather data integration, location detection, and weather data visualization.

**Interfaces and Integrations Team:** This team will be responsible for ensuring seamless integrations with public weather services and third-party systems. They will work closely with the development team to create robust APIs and services to support client apps and system integrations.

**Bespoke Apps Development Team:** This team will focus on the development of mobile apps for iOS and Android phones, ensuring that the apps provide a seamless experience by the users to access weather information on the go.

**Maintenance and Support Team:** As the portal and apps are launched, this team will provide ongoing maintenance, support, and monitoring to address any issues, ensure system stability, and collect user feedback for continuous improvement.