**Mood Mirror – Presentation Script**

**Slide 1: Introduction – "Mood Mirror"**

Hello everyone. Today, I’ll be presenting **Mood Mirror**, an interactive journaling app with built-in emotional intelligence.  
The purpose of this project is to give users a private space to write freely, while the app listens, reflects, and visualizes how they feel over time. Think of it as a modern, intelligent version of a diary that cares back.

**Slide 2: Project Goal**

The main goal of Mood Mirror is **emotional self-awareness**.  
By blending natural language processing and sentiment tracking with a visually rich and welcoming interface, Mood Mirror:

* Encourages daily journaling,
* Provides real-time feedback based on emotional tone, and
* Helps users identify emotional trends or recurring triggers.

The end result? A deeper understanding of yourself—backed by data, but delivered with empathy.

**Slide 3: Packages and Tools Used**

The app is built with Python, and several key libraries enable its features:

**🖼 Tkinter**

Used for building the graphical user interface. It handles all windows, buttons, inputs, and layout.  
Custom styling with fonts and background images makes the app feel more like a digital diary than a technical tool.

**🧠 TextBlob**

TextBlob is used to analyze the sentiment of each journal entry.  
It computes two values—**polarity** (emotional tone) and **subjectivity**. We mainly use polarity to determine mood.

**📈 Matplotlib**

For plotting mood trends visually.  
It allows the user to **see how their mood changes over time**, with custom formatting to avoid clutter by showing full timestamps, not just dates.

**📦 PIL (Pillow)**

Used for loading and resizing a custom aurora-night background image, giving the app an aesthetic, calming look.

**🔐 Hashlib**

This is used for password protection to keep user data secure.

**🗂 JSON**

Every entry—including timestamp, text, mood score, and tags—is stored in a JSON file for easy access and portability.

**📅 Datetime**

Manages timestamps for each entry, allowing accurate mood tracking across days and hours.

These tools work together to create a seamless experience that combines security, sentiment analysis, data visualization, and beauty.

**Slide 4: Key Features and Algorithms**

**1. Sentiment Analysis (TextBlob)**

Each time the user writes, the app analyzes the tone and calculates a **mood score** between -1 and 1.  
This is stored with the entry and used both for immediate feedback and long-term visualization.

**2. Dynamic Feedback Generation**

Based on the mood score, the app selects one of several pre-written quotes or affirmations.  
These are designed to feel like thoughtful responses—sometimes uplifting, sometimes reflective—depending on how the user is feeling.  
This feedback is **shown directly below the journal input**, like a responsive conversation. Think *Tom Riddle’s diary*—but wholesome.

**3. Mood Trend Visualization**

All mood scores are plotted using Matplotlib with precise timestamps.  
The x-axis includes both **date and hour**, keeping the plot clear and informative even with frequent entries.  
This lets users visually track emotional trends and possibly correlate them with life events or times of day.

**4. Tagging System**

Users can add **tags** to entries, like “work,” “dream,” “gratitude,” or “anxiety.”  
Tags make it possible to filter and **view only specific types of entries**.  
For example, one could review all entries tagged “progress” to focus on growth over time.  
This adds a thematic layer to journaling and helps in organizing thoughts by topic.

**Slide 5: Design Philosophy**

Mood Mirror was designed to be not just functional, but also **emotionally resonant**.

* Uses a **custom Gothic font** and **aurora night background** to evoke a mystical, safe space.
* Feedback appears in the **same window**, directly under the user’s entry—not as pop-ups.  
  This makes the interaction feel personal and fluid.
* Mood charts open **within the app**, not externally—keeping users immersed in the reflective space.
* The **tags and filters** help personalize the experience and offer structure for recurring journaling themes.

It’s not just a logbook—it’s a soft space for emotional clarity.

**Slide 6: Summary**

To summarize:

* **Mood Mirror** is a sentiment-aware, visually immersive journaling app.
* It securely saves entries, responds empathetically to user emotion, and visualizes emotional trends.
* It uses powerful tools like TextBlob for sentiment, Matplotlib for mood plots, and Tkinter for a responsive, full-featured GUI.
* The **tagging system** and **inline feedback** make journaling both reflective and efficient.

**Slide 7: Thank You**

Thank you for your attention. I’d be happy to answer questions about how Mood Mirror works, or how it might grow in future versions.