ITEC 101: HUMAN COMPUTER INTERACTION
Final Lab Activity: "My Multimedia Journal App"

Name:_____   **Date:_____**

Course & Section:_____

Objective

Students will create a mobile app using MIT App Inventor that allows users to:

- Take photos and videos,

- Add captions via text or voice,

- View images,

- Hear the captions read aloud using Text-to-Speech.

App Features (Requirements)

1. **User Interface Elements**

    o At least **1 Button** for each action: Take Photo, Record Video, Speak Caption, Play Caption.

    o **TextBox** to input or display a caption.

    o **Image** component to show the taken photo.

2. **Functionality**

    o **Camera** component to capture a photo and display it.

    o **Camcorder** to record a short video and store it.

    o **Voice command**: Use Speech Recognizer to input captions.

    o **Text-to-Speech** to read the entered or recognized caption.

3. **Optional Enhancements (Bonus Points)**

    o Save photo/video entries in a list.

    o Display entries in a scrollable gallery or list.

    o Include time/date stamps for each entry.

Instructions

1. Launch **MIT App Inventor**.

2. Design the layout with the components listed above.

3. Code the logic using blocks for each functionality:

    o **Button1**: Open camera → display image.

    o **Button2**: Open camcorder → store video path.

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- o **Button3**: Use Speech Recognizer → display in TextBox.

- o **Button4**: Use Text-to-Speech → read aloud TextBox text.

4. Test the app on a connected device or emulator.

5. Demo (1–2 mins) of your app.

Final Lab Activity Rubric (Total: 100 points)

Criteria	Description	Points	TOTAL
UI/UX Design	Clean, user-friendly layout, intuitive button placement, and readable text.	20 pts	
Functionality	App components (camera, camcorder, TTS, voice input, etc.) work as intended.	30 pts	
Code Organization	Blocks are logically grouped, readable, and well-commented.	20 pts	
Use of Elements/Objects	All required components (Button, TextBox, Image, Camcorder, etc.) are included and appropriately used.	20 pts	
Overall Quality	Creativity, completeness, polish, and responsiveness of the app.	10 pts	

OUTPUT: