**Camera Class Documentation**

The camera class is a component of the Smart Home Hub system, extending the smart appliance class. It is designed to control and manage home cameras, offering features such as recording, saving, and playing back video recordings.

**Class Overview**

The camera class represents a smart camera device within the Smart Home Hub system. It inherits properties and methods from the base smart appliance class and adds functionality specific to cameras.

**Class Constructor**

constructor(name = '', resolution = '1080p')

* **name** (string, optional): The name of the camera.
* **resolution** (string, optional): The initial resolution setting of the camera (e.g., '1080p', '720p'). The default is '1080p'.

**Properties**

* **resolution** (string): Represents the current resolution setting of the camera. It can be set to various resolution values to control the video quality.
* **\_isRecording** (boolean): Indicates whether the camera is currently recording.
* **\_recordings** (array): An array to store recorded video segments.

**Methods**

* **startRecording()**: Initiates the recording process. If the camera is not already recording, it starts recording and logs a message.
* **stopRecording()**: Stops the recording process. If the camera is currently recording, it stops the recording and logs a message.
* **saveRecording(recording)**: Saves a recorded video segment. If the camera is recording, it adds the segment to the **\_recordings** array and logs a message.
* **playbackRecording(index)**: Initiates the playback of a recorded video segment. If the provided index is valid (within the range of recorded segments), it logs a message indicating the playback of the corresponding recording.

**Usage**

The camera class is designed to be a flexible and extensible component for managing smart cameras within your smart home system. You can control the camera's resolution, initiate recording, and stop recording, save recorded segments, and play back recordings.