index (Home Page)

Purpose: Main entry point and navigation.

Heading: "SteganoCleats"

Body Text: "Your secret message, hidden in cleats."

Button: "Encode Message" (Links to encode_upload)

Button: "Decode Message" (Links to decode_upload)

Button: "My Locker" (Links to locker)

Button: "About" (Links to about)

encode_upload (Encode Message)

Purpose: User inputs message and selects image for encoding.:

Title: "Upload to Hide and link your message"

Input: **TextArea** for "Secret Message" (hidden_message)

Input: **SelectBox** for "Team Color" (team_color)

Input: **FileInput** for "Upload Cleat Image" (cleat_image_bytes)

Checkbox: "Save to Locker after encoding?"

Button: "Encode" (Links to encode_result)

Button: "Back to Home" (Links to index)

encode_result (Encode Result)

Purpose: Displays the steganographically encoded image.

Title: "Your message is hidden. Download the cleat below."

Display: The encoded cleat image (encoded_image_bytes)

Button: "Download Encoded Cleat" (Action to download image)

Button: "Save to Locker" (Action to save current result to cleat_history)

Button: "Try Another" (Links to encode_upload)

Button: "Back to Home" (Links to index)

about (About)

Purpose: Educational page explaining steganography and the app's concept.

Title: "ABOUT STEGANOCLEATS"

Section: "What is Steganography?" (Text explanation)

Section: "How it Works:" (Simplified process explanation)

Links: "More Info" (External links to steganography resources)

Button: "Back to Home" (Links to index)

decode_upload (Decode Message)

Purpose: User uploads an image to extract a hidden message.

Title: "Upload a Cleat encoded below."

Input: **FileInput** for "Upload Encoded Cleat" (cleat_image_bytes)

Input: **TextBox** for "Optional: Who sent this cleat?"

Checkbox: "Save to Locker after decoding?"

Button: "Decode" (Links to decode_result)

Button: "Back to Home" (Links to index)

decode_result (Decode Result)

Purpose: Displays the message extracted from the uploaded image.:

Title: "The hidden message is:"

Display: TextArea showing the "Decoded Message" (decoded_message)

Display: Original uploaded cleat image (for context)

Button: "Decode Another" (Links to decode_upload)

Button: "Back to Home" (Links to index)

locker (My Locker)

Purpose: Shows a history of saved encoded/decoded cleats.

Parameters: None (displays current state's cleat_history:

Title: "My Cleats Locker"

Display: List/Table of CleatRecord entries (Date, Team Color, Action - e.g., "Encoded", "Decoded")

Button: "View" (Next to each item, links to locker_detail with cleat_id parameter)

Button: "Manage/Delete" (Options to clear history or delete specific items)

Button: "Back to Home" (Links to index)

locker_detail (Cleat Detail)

Purpose: Shows a detailed view of a single saved cleat record.

Parameters: cleat_id (ID/index of the cleat record to display)

Title: "Saved Cleat Detail"

Display: The relevant cleat image (original or encoded)

Display Text: "Team Color: [Selected Color]"

Display Text: "Action: [Encoded/Decoded]"

Display Text: "Date: [Date of Action]"

Display Text: "Hidden Message: [Decoded message, or indication it's encoded]"

Button: "Back to Locker" (Links to locker)

State Fields:
cleat_image_bytes: bytes
hidden_message: str
encoded_image_bytes: bytes
decoded_message: str
team_color: str
cleat_history: List[CleatRecord]

Routes:
index: route
encode_upload: route
encode_result: route
download_encoded_image: route
save_to_locker: route
decode_upload: route
decode_result: route
locker: route
locker_detail: route
delete_locker_item: route
clear_locker: route
about: route

Pages:
index: page
encode_upload: page
encode_result: page
decode_upload: page
decode_result: page
locker: page
locker_detail: page
about: page