Test Plan Table

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| Test Case Number | Description | Steps | Expected Results | Actual Results | Comment |
| 01 | Upload satellite image (.jpg format) | 1. Navigate to the interface. 2. Click "Upload Image". 3. Select a .jpg satellite image. | The image is uploaded successfully without errors. | The image was successfully uploaded | Pass |
| 02 | Classify image segments | 1. Preprocessed image is fed into the model. 2. Classification is initiated. | Each 64x64 segment is classified accurately. | The program segments the picture into 64x64 and classifies them. | Pass |
| 03 | Generate land use map | 1. Classify image segments. 2. Combine classified segments. 3. Highlight segments on the map. | A color-coded map is returned, indicating land use. | The model color-codes the map but doesn’t classifies highways. | Partially pass |
| 04 | Detect differences between two images | 1. Upload two satellite images of the same area. 2. Trigger the comparison functionality. | A map showing changes is generated accurately. | The model is able to detect difference. | Pass |
| 05 | Web-based interface usability | 1. Navigate to the web interface. 2. Interact with upload and output functionalities. | Interface is user-friendly and easy to navigate. | The user interface is working and user can upload and view their results. | Pass |