CLAIMS

1. A method for controlling access to a computing device based on detection and verification of prayer activities using the Adhan Time system, comprising:

a) capturing a sequence of images of a user via a camera of the computing device;

b) processing the sequence of images using a pose detection model to identify a plurality of skeletal landmarks of the user;

c) analyzing geometric relationships between the skeletal landmarks to classify the user's position as one of: standing (Qiyam), bowing (Ruku), prostration (Sujud), or sitting (Julus);

d) tracking transitions between the classified positions to detect completion of prayer units (Rakaat);

e) unlocking the computing device when a predetermined number of prayer units has been properly completed in correct sequence.

2. The method of claim 1, wherein analyzing the geometric relationships between skeletal landmarks comprises:

a) calculating a spine angle between a mid-shoulder point and a mid-hip point;

b) calculating knee angles between ankle, knee, and hip landmarks;

c) comparing the calculated angles to predetermined threshold ranges specific to each prayer position;

d) applying temporal smoothing to stabilize position classification.

3. The method of claim 1, wherein tracking transitions between classified positions comprises:

a) maintaining a state machine representing valid prayer position sequences;

b) enforcing minimum duration thresholds for each position;

c) validating that positions occur in the correct sequence for a valid prayer unit.

4. The method of claim 1, further comprising applying security measures to prevent unauthorized bypass attempts, including:

a) monitoring for continuity of landmark detection;

b) verifying confidence metrics exceed minimum thresholds;

c) analyzing natural movement patterns to detect potential spoofing.

5. A system for prayer-based authentication comprising the Adhan Time application that includes:

a) a computing device having at least one camera, a processor, memory, and a lockscreen mechanism;

b) a pose detection module configured to process camera input and extract skeletal landmarks;

c) a prayer position classification module configured to analyze geometric relationships between the skeletal landmarks and identify Islamic prayer positions;

d) a Rakaat tracking module configured to monitor position sequences and validate completion of prayer units;

e) an authentication module configured to unlock the device upon verification of completed prayers.

6. The system of claim 5, wherein the prayer position classification module identifies positions by:

a) calculating a spine angle between shoulders and hips;

b) determining knee angles for position differentiation;

c) analyzing relative positions of head, shoulders, hips, and feet;

d) applying confidence thresholds to ensure reliable detection.

7. The system of claim 5, wherein the Rakaat tracking module:

a) enforces minimum time thresholds for each prayer position;

b) validates the sequence of positions follows the correct order;

c) increments a Rakaat counter when a valid sequence is completed;

d) implements a final delay timer before triggering device unlock upon completion of the final Rakaat.

8. The system of claim 5, further comprising a PIN-based override authentication mechanism for use when camera-based prayer detection is unavailable or impractical.

9. The system of claim 5, further comprising anti-spoofing measures to detect and prevent unauthorized unlock attempts using pre-recorded videos or images.

10. A non-transitory computer-readable medium storing Adhan Time application instructions that, when executed by a processor of a computing device, cause the device to perform operations comprising:

a) acquiring video frames from a device camera;

b) extracting skeletal landmarks using a machine learning pose detection model;

c) classifying prayer positions based on geometric relationships between landmarks;

d) tracking prayer progress through a state machine implementation;

e) authenticating and unlocking the device upon verification of completed prayer sequences.