**@startuml**

**title Campus Event Management System**

**class Users {**

**+user\_id: INT {PK}**

**+ashesi\_id: VARCHAR(20) {UQ, NOT NULL}**

**+first\_name: VARCHAR(50) {NOT NULL}**

**+last\_name: VARCHAR(50) {NOT NULL}**

**+email: VARCHAR(100) {UQ, NOT NULL}**

**+password: VARCHAR(255) {NOT NULL}**

**+role: ENUM('student', 'organizer', 'admin') {DEFAULT 'student'}**

**+phone\_number: VARCHAR(15)**

**+profile\_picture: VARCHAR(255)**

**+created\_at: TIMESTAMP {DEFAULT CURRENT\_TIMESTAMP}**

**+updated\_at: TIMESTAMP {AUTO UPDATE}**

**--**

**// Stores student and organizer details**

**}**

**class Events {**

**+event\_id: INT {PK}**

**+title: VARCHAR(255) {NOT NULL}**

**+description: TEXT**

**+start\_datetime: DATETIME {NOT NULL}**

**+end\_datetime: DATETIME {NOT NULL}**

**+location: VARCHAR(255)**

**+organizer\_id: INT {FK -> Users}**

**+category: VARCHAR(100)**

**+max\_capacity: INT**

**+is\_public: BOOLEAN {DEFAULT TRUE}**

**+created\_at: TIMESTAMP {DEFAULT CURRENT\_TIMESTAMP}**

**+updated\_at: TIMESTAMP {AUTO UPDATE}**

**--**

**// Stores event details and is linked to an organizer**

**}**

**class Registrations {**

**+registration\_id: INT {PK}**

**+user\_id: INT {FK -> Users}**

**+event\_id: INT {FK -> Events}**

**+registration\_date: TIMESTAMP {DEFAULT CURRENT\_TIMESTAMP}**

**+attendance\_status: ENUM('pending', 'attended', 'missed') {DEFAULT 'pending'}**

**--**

**// Tracks event registrations and attendance status**

**}**

**class Feedback {**

**+feedback\_id: INT {PK}**

**+event\_id: INT {FK -> Events}**

**+user\_id: INT {FK -> Users}**

**+rating: INT {CHECK 1-5}**

**+comments: TEXT**

**+created\_at: TIMESTAMP {DEFAULT CURRENT\_TIMESTAMP}**

**--**

**// Stores feedback provided by users for events**

**}**

**class EventAnalytics {**

**+analytics\_id: INT {PK}**

**+event\_id: INT {FK -> Events}**

**+total\_registrations: INT {DEFAULT 0}**

**+total\_attended: INT {DEFAULT 0}**

**+total\_feedback: INT {DEFAULT 0}**

**+average\_rating: FLOAT {DEFAULT 0}**

**--**

**// Stores analytical data about event performance**

**}**

**class AdminPanel {**

**+admin\_id: INT {PK}**

**+user\_id: INT {FK -> Users}**

**+permissions: TEXT**

**--**

**// Stores admin roles and permissions for managing events**

**}**

**class EventCalendar {**

**+calendar\_id: INT {PK}**

**+user\_id: INT {FK -> Users}**

**+event\_id: INT {FK -> Events}**

**+sync\_status: ENUM('synced', 'pending') {DEFAULT 'pending'}**

**--**

**// Helps in event synchronization for users**

**}**

**Users "1" --> "0..\*" Events : organizes**

**Users "1" --> "0..\*" Registrations : registers**

**Users "1" --> "0..\*" Feedback : gives**

**Users "1" --> "0..\*" AdminPanel : manages**

**Users "1" --> "0..\*" EventCalendar : syncs**

**Events "1" --> "0..\*" Registrations : has**

**Events "1" --> "0..\*" Feedback : receives**

**Events "1" --> "1" EventAnalytics : tracks**

**Events "1" --> "0..\*" EventCalendar : appears in**

**@enduml**A diagram of a computer

AI-generated content may be incorrect.