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**EVENT REGISTRATION SYSTEM FOR CAREER SERVICES AT
WEST TEXT A&M UNIVERSITY**

A Web-Based Solution to Simiplify Event Management & Student Engagement

CIDM 3312-70: Advanced Programming

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[DRAFT]

Figure 1: Representative watermark image created using generative AI.

Working Concept

I work in the Office of Career & Professional Development at WT. We host a range of networking events to connect well prepared students with employers by putting them in the same room and providing the platform for direct interaction. With this in mind, the web application idea that came to me, would be designed to streamline the management of career services events while addressing the unique needs of our office.

The web application would enforce prerequisites like ensuring students complete what we call a 'resume review' appointments *before* participating in networking events with potential employers. This is to ensure some degree of preparation which reflects well on both the student, our office, and the University. The system would efficiently track student registrations, verify eligibility based on these prerequisites, and provide tools to simplify event management for staff.

Workflow Example

1. Student Login
   a. Assuming students have passed credential checks, or are on the school VPN, students navigate to the event page which contains the list of upcoming events
      i. Duo verification is outside the scope of this assignment
   b. Select the event of enterest and arrive at a registration form
      i. Requirements to register include Resume Review appointment checked
      ii. Attempting to register for a networking event without a resume review displays a message: "Please complete a resume review before registering for this event."
2. Resume Review
   a. Career services staff update the student's profile manually after reviewing their resume.
      i. Students receives confirmation of eligibility at the end of the session
3. Event Registration
   a. Eligible students register for events.
   b. Staff view registration rosters for event planning, catering volume, etc.
4. Event Day
   a. Staff access the attendee list with the app.

1. Student:
     a. Properties: StudentID, FirstName, LastName, Email, Major, GraduationYear, ResumeReviewed (boolean)
     b. Relationships: One-to-many with EventRegistration

2. EventRegistration:
     a. Properties: RegistrationID, RegisteredDate, StudentID (fk), EventID (fk)
     b. Relationships: Many-to-one with Student, and Many-to-many with Event

3. Event:
     a. Properties: EventID, EventName, EventDate, EventLocation, NeedResumeReview (boolean), Description
     b. Relationships: Many-to-many with EventRegistration
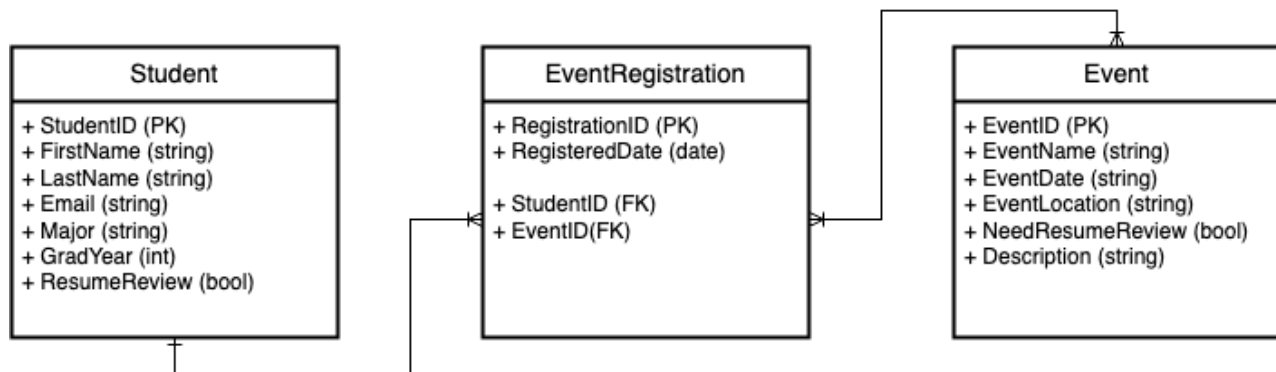
Entity Relationship Diagram

Figure 2: Student Event Registration Application - Entity Relationship Diagran

Key Features

1. Student Registration:
   a. Students can register for events directly via the web app.
   b. If an event requires a resume review, the system checks the ResumeReviewed status before allowing registration.
   c. Display events the student is registered for and allow cancellation.

2. Resume Review Service:
   a. Allows career services staff to update a student's ResumeReviewed status after a resume review appointment. This makes them elligible to to register for an event.

3. Event Management:
   a. Career services staff can:
      i. Create and manage events (name, date, location, and prerequisites).
      ii. View registrations for each event.

4. Search and Sort:
   a. Search events by name or date.
   b. Sort registered students by name or resume status.

5. Bootstrap-Based Home Page:
   a. Carousel or card-based layout for upcoming events, showcasing event flyers that illustrate the industry specific career fair or networking event
   b. Highlight events requiring a resume review with a badge or icon.

Generative AI - Enhanced Elements

1. Generated Content:
   a. Generate event descriptions
      i. e.g., "Connect with top employers in the region"
   b. Populate student and event seed data
      i. e.g., mock students, events
   c. Event flyers displayed on the Homepage
      i. ./Events/Index.cshtml