ONLINE TABULATION SYSTEM

A PROJECT PROPOSAL
Presented to the
DEPARTMENT OF COMPUTER ENGINEERING
**NEGROS ORIENTAL STATE UNIVERSITY**
DUMAGUETE CITY

In Partial Fulfillment of the Requirement of the course

COE 241 – SOFTWARE DESIGN

By

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# ONLINE TABULATION SYSTEM

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## I.    Statement of the problem

The current process of Negros Oriental State University (NORSU) when it comes to storing data for their pageant event such as Mr. and Miss COEECE solely rely on manual encoding. NORSU does not have a centralized database or system that will easily calculate each candidate's scores/records. A lot of task needs to be accomplished and records/scores are manually calculated by the event's tabulating team. Duplication and loss of data has been inevitable and the team finds it difficult and time consuming to consolidate records and reports.

The current scoring process is currently facing several challenges that affect the overall flow of the event and operational efficiency. These challenges include inaccurate information, delayed results, and poor communication between the judge, event organizer and the tabulating team.

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## II. Project Objectives

The development of this web and mobile application project will solve the problems mentioned above. This will enable everyone to experience fun without having to worry with the potential delays during the calculation of the candidates' scores. The project will help reduce labor costs and make the tabulation process more convenient and efficient. The overall objective of this proposal includes the following:

*For the candidates:*

- To experience and enjoy the event without having to worry of possible errors during the computation of their scores.

*For the Department:*

- To have a tool that can be used by the university for any similar events;

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*For the Committee:*

- To   allow them prevent any delays and errors during the tabulation process.

- To enhance efficiency for the success of the event.

### III.    Solution of the problem

To design a Tabulating System that will:

- ❖ Automate the entire tabulation process.

- ❖ Allow easy tracking for all types of data such as scores and ranking of candidates.

- ❖ Centralize all records of every candidate.

- ❖ Faster turn-around time when it comes to accomplishing tasks.

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## IV. Related Studies

### Introduction of Online Tabulation System

Events and competitions are extremely common, particularly in educational settings. The tabulation process is crucial in any tournament. Tabulators used to manually calculate the scores and write them on a piece of paper, which was prone to errors. Manual tabulation of scores necessitates valuable time and effort on the part of the tabulators. Also, due to human error, score tabulation may be inaccurate, or records of tabulated scores may be misplaced. The manual technique is not optimal because it does not produce a very accurate and trustworthy contest outcome. (inettutor.com, 2021)

### Automated Scoring System of the AMA Computer College

AMA Computer College Sta. scored automatically. Mesa Campus is ranked low in the category scoring system. This was created and deployed using LAN, and its adjustable scoring is for singing competitions, dancing competitions, and pageants. The system creates computerized computation and tabulation of the judges' scores for the contenders. The technology can generate contest results and identify who the top contestants are. (https://capstoneguide.com/, 2023)

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## V.    Methodology

### Use Case Diagram



ONLINE TABULATION SYSTEM

Judge

- Create/Signin Account
- Confirm Order
- Update Order Status
- Check Customer Order
- Join Event
- Add New Criteria for the event
- Add New Candidate for the event
- Add New Event Portion
- Delete Items from Menu
- Accept/Reject Request
- Create Event
- Remove Accounts from the event
- View Results

Administrator

Figure 1: Use Case Diagram

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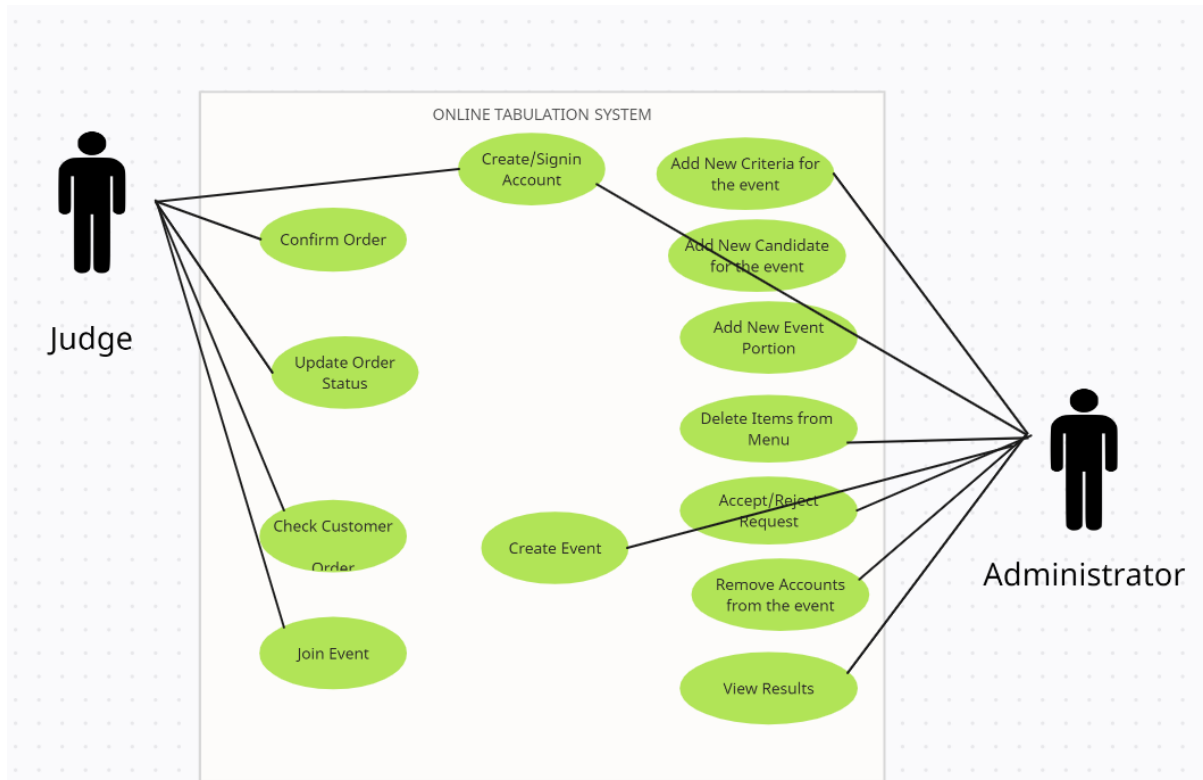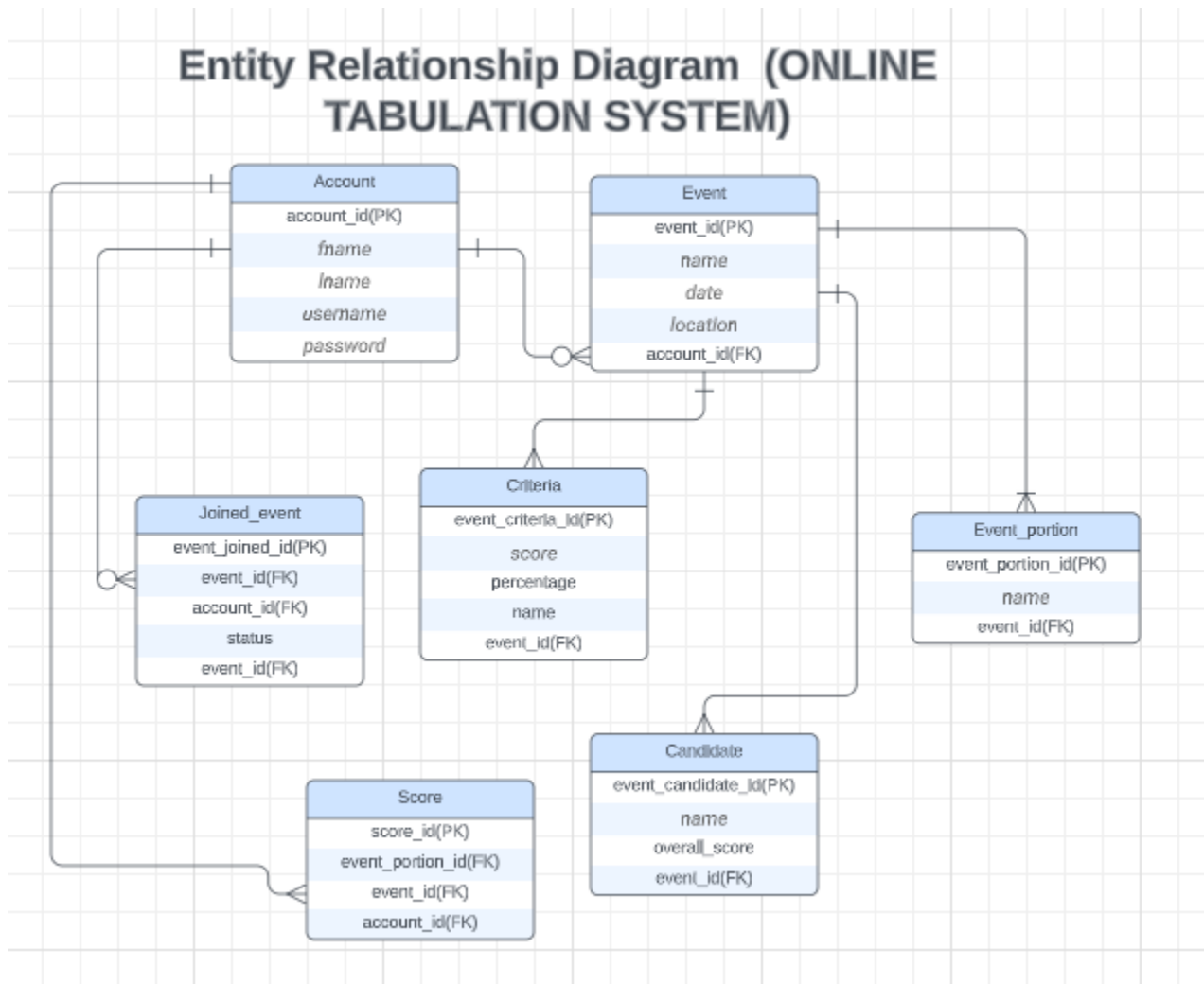**Entity Relationship Diagram**



Figure 2: Entity Relationship Diagram

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