MSc Engenharia e Ciência de Dados
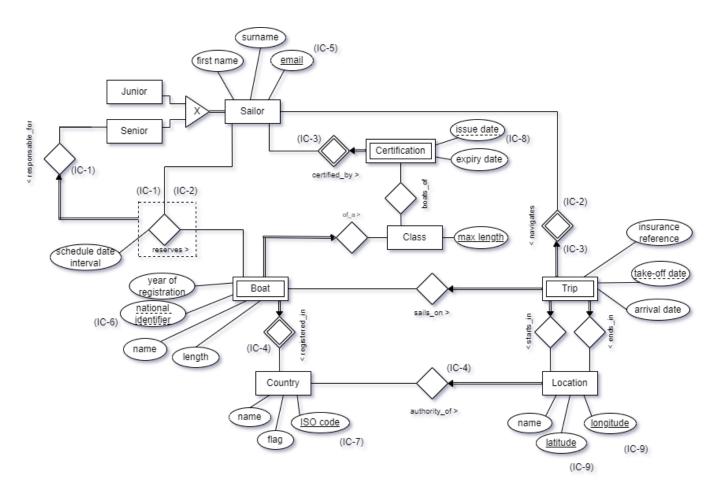
Information Systems and Databases

SIBD Project - Part 1

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Group 26

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Fig. 1. Entity-Association model diagram and set of integrity Constraints.

Integrity Constraints

(IC-1) Senior **responsable for** reservation must be one of the sailors that **reserves** the boat in that reservation

(IC-2) Sailor that **navigates** a trip must **reserve** the boat that **sails on** that trip

(IC-3) Sailor that **navigates** a trip must be **certified by** a certification for **boats of** a class equal or larger than the boat that **sails on** that trip

(IC-4) Every country where boats can be **registered in** must be the maritime **authority of** at least one location

(IC-5) Sailor emails are unique

(IC-6) Boat national identifiers are unique for each country.

(IC-7) Country ISO codes are unique

(IC-8) Certification issue dates are unique for each sailor

(IC-9) Location latitude and longitude must be unique as a pair (each individually can exist in any number of locations)