

# FEUPbook DB – Entity Relationship Model

## Entities

MediaType (id, name, location) {ProgLogo, ProfilePic, PostPic, PostVideo, PostAudio}  
CircleType (id, name) { Department, Program, Course, Class, Workgroup, *Admin*, *AdHoc*, *Global* }  
MemberType (id, name) {Student, Professor, Employee, Admin}

Post (id, timest, message)  
Media (id, name)  
Member (id, name, email, password)  
Session (id, initialts, finalts)

Circle (id)  
Department (id, name, initials)  
Program (id, name, initials)  
Course (id, name, initials, year, semester)  
Class (id, reference)  
Workgroup (id, reference)

Notification (id, readstatus)

Chat (id)  
ChatEntry (id, timest, message)

## Relationships

postedBy (Post, Member) N:1 t/p  
mediaOfType (Media, MediaType) N:1 t/p  
belongsTo (Media, Post) N:1 p/p  
memberOfType (Member, MemberType) N:1 p/p  
profilePic (Media, Member) 1:N p/p  
sessionBy (Session, Member) N:1 t/p

departmentHas (Department, Circle) 1:1 t/p  
programOf (Program, Department) N:1 t/p  
progLogo (Media, Program) 1:1 p/p  
programHas (Program, Circle) 1:1 t/p  
courseOf (Course, Program) N:1 t/p  
courseHas (Course, Circle) 1:1 t/p  
classOf (Class, Course) N:1 t/p  
classHas (Class, Circle) 1:1 t/p  
workgroupOf (Workgroup, Class) N:1 t/p  
workgroupHas (Workgroup, Circle) 1:1 t/p  
circleOfType (Circle, CircleType) N:1 t/p

postedIn (Post, Circle) N:N t/p  
partOf (Member, Circle) N:N p/p

notifying (Notification, Member) N:N t/p

among (Chat, Circle) 1:1 t/p  
entryIn (ChatEntry, Chat) N:1 t/p