@startuml

left to right direction

class User {

+name: String

+email: String

+profilePicture: String

+bio: String

+registrationDate: Date

#password: String

+login()

+read(Article)

+comment(Article, comment: String)

+like(Article)

+createTopic(Forum, title: String)

+updateProfile()

}

class Account {

+accountID: String

+creationDate: Date

+status: String

+lastLogin: Date

+emailVerified: Boolean

+modifyAccount(ID)

+resetPassword(oldPassword: String, newPassword: String)

+deleteAccount()

}

class News {

+title: String

+category: String

+addArticle(Article)

+removeArticle(Article)

}

class Article {

+title: String

+content: String

+author: String

+publicationDate: Date

+category: String

+views: Integer

+likesCount: Integer

+publish()

+edit(newContent: String)

+addComment(Comment)

}

class Forum {

+name: String

+description: String

+creationDate: Date

+addTopic(Topic)

+removeTopic(Topic)

+searchTopics(query: String)

}

class Topic {

+title: String

+content: String

+creationDate: Date

+discuss()

}

class Comment {

+content: String

+publicationDate: Date

+author: String

+likesCount: Integer

+edit(newContent: String)

+reply(replyContent: String)

+delete()

+like()

+report(reason: String)

}

class Administrator {

+name: String

+email: String

#password: String

+publishArticle(title: String, content: String)

+editArticle(Article)

+deleteArticle(Article)

}

class Moderator {

+name: String

+email: String

#password: String

+moderateTopic(Topic)

+deleteComment(Comment)

}

class Search {

+title: String

+findArticle()

+findCategory()

+sort()

}

' Relationships

User "1" -- "1" Account

User "1" -- "0..\*" Article

User "1" -- "0..\*" Comment

News "1" -- "0..\*" Article

Forum "1" \*-- "0..\*" Topic

Topic "1" -- "0..\*" Comment

Article "1" o-- "0..\*" Comment

Administrator "1" --|> User

Moderator "1" --|> User

Article "0..\*" -- "0..\*" Topic

(Article, News) .. Search

@enduml