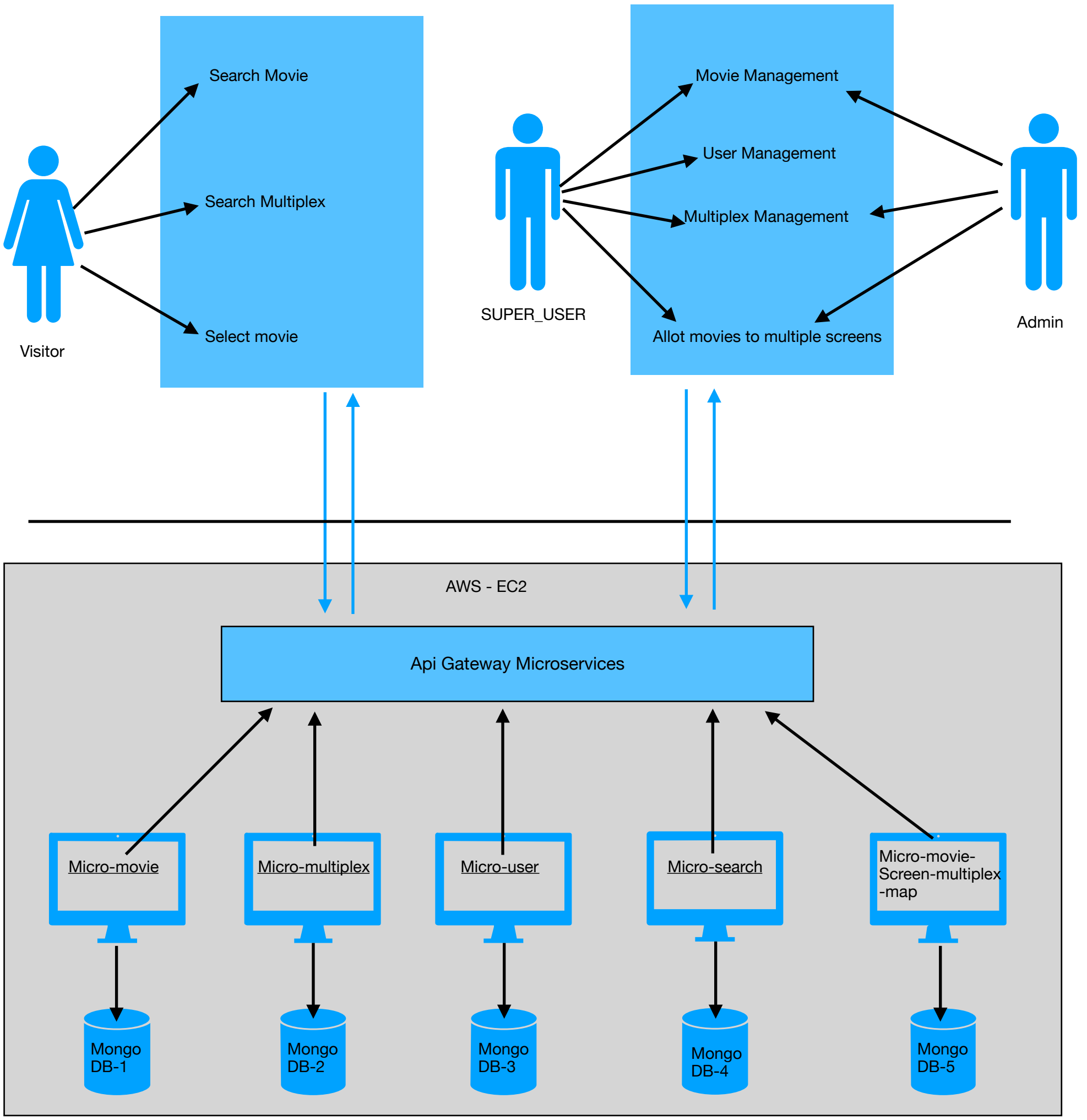

MoviePlex Architecture Diagram

Data Objects & Communication

Movieplex - user - MS

	UserDetailDto
	String userId
	String firstName
	String lastName
	Date dob
	int age
	String email
	String mobile
	String password
	String location
	String userType
	boolean isAlive
	List<MultiplexDetailDto> associatedMultiplexes
	Date profileCreationTimeStamp
	Date profileLastModifiedTimeStamp

1:M

Movieplex - multiplex - MS

	MultiplexDetailDto
	String multiplexId
	String name
	String location
	List<ScreenDetailDto> screenList
	int numberOfScreens
	String associatedUserId

1:M

Movieplex - screen - MS

	ScreenDetailDto
	String multiplexId
	String screenId
	String screenName
	float screenSize
	Int totalSeat
	String movieId
	MovieDetailDto movieDetail
	Date showStartDate
	Date showEndDate
	Boolean isScreenAlive
	Date showAllocationDate
	Date showLastModified

1:1

Movieplex - Movie - MS

	MovieDetailDto
	String movieId
	String name
	String category
	Sting casts
	String producer
	String director
	Double length
	String language
	String trailer
	String posterURL
	Double imdbRating
	Double userRating
	Date releaseDate
	Boolean isAlive
	Date movieCreationTimeStamp
	Date movieLastModifiedTimeStamp

Movieplex - movie-search-map - MS

	MovieSearchDetailDto
	String multiplexId
	String movieId
	String screenId

User Microservice

	User Microservice - method description							
Rest- end points	**Method name**	**Method parameter**	**Return values**	**Description**	**User Access**			
/api/user/login	login()	LoginDto	UserDetailDto	To login a registered user	Any			
/api/user/register	register()	Profile Picture, RegisterDto	UserDetailDto	To register a new user	Any			
/api/user/update-profile-picture	changeProfilePicture()	Profile Picture, User Id	UserDetailDto	To change profile Picture	User			
/api/user/modify-user	editProfile()	UserDetailDto	UserDetailDto	To edit profile information	User			
/api/user/get/{userId}	getUserDetail()	userId	UserDetailDto	To get a user detail	Admin			
/api/user/get-all	getAllUserDetail()	-	List<UserDetailDto>	To get all user details	Admin			
/api/user/find/{name}	getUserByName()	name	List<UserDetailDto>	To get all matched user details	Admin			

Movie Microservice

	Movie Microservice - method description							
Rest- end points	**Method name**	**Method parameter**	**Return values**	**Description**	**User Access**			
/api/movie/add	addMovie()	MovieDetailDto	MovieDetailDto	To add a movie in DB	Admin			
/api/movie/modify/{movieId}	modifyMovie()	MovieDetailDto	MovieDetailDto	To modify a movie in DB	Admin			
/api/movie/delete/{movieId}	deleteMovie()	movieId	Boolean	To delete a movie	Admin			
/api/movie/{movieId}	getMovieById()	movieId	MovieDetailDto	To find a movie by Id	Any			
/api/movie/get-all	getAllMovie()	-	List<MovieDetailDto>	To get list of all movie	Any			
/api/movie/find/{name}	getMovieByName()	movieName	MovieDetailDto	To find a movie by name	Any			
/api/movie/list-running-multiplexes/{movieId}	getAllRunningMultiplexes()	movieId	List<MPlexDetailDto>	To list all multiplexes who	Any			

Multiplex Microservice

	Multiplex Microservice - method description							
Rest- end points	**Method name**	**Method parameter**	**Return values**	**Description**	**User Access**			
/api/mplex/register	registerMPlex()	MPlexDetailDto	MPlexDetailDto	To register a Multiplex with its screen details	Admin			
/api/mplex/modify/{mPlexId}	modifyMplex()	mPlexId	MPlexDetailDto	To modify a Multiplex with its screen details	Admin			
/api/mplex/delete/{mPlexId}	deleteMplex()	mPlexId	MPlexDetailDto	To delete a multiplex	Admin			
/api/mplex/find/mPlexName	getMPlexByName()	mPlexName	MPlexDetailDto	To find a multiplex by name	Any			
/api/mplex/find-all	getAllMPlex()		List<MPlexDetailDto>	To get all multiplex listed	Any			
/api/mplex/find/location/{location}	getMPlexByLocation()	Location	List<MPlexDetailDto>	To find all multiplex by location	Any			
/api/mplex/find/screen-list{mPlexId}	getAllScreen(mPlexId)	mPlexId	List<ScreenDetailDto>	To get all listed screens of this multiplex	Any			

Screen Microservice-1

	Screen Microservice - method description							
Rest- end points	**Method name**	**Method parameter**	**Return values**	**Description**	**User Access**			
/api/screen/register/	registerScreen()	ScreenDetailDto	ScreenDetailDto		Admin			
/api/screen/modify/{screenId, mPlexId}	modifyScreen()	ScreenDetailDto	ScreenDetailDto		Admin			
/api/screen/delete/{screenId, mPlexId}	deleteScreen()	screenId	ScreenDetailDto		Admin			
/api/screen/add-movie/{screenId, MovieDetailDto}	addMovie()	screenId	ScreenDetailDto		Admin			
/api/screen/find-all/{mPleaxId}	getAllScreenByMPlexId()	mPlexId	List<ScreenDetailDto>		Mplex-microservice			