

1. UseCase Diagram

1) 거래내역, 아파트 DTO



- getAddress(): String
- setAddress(address: String): void
- getAptCode(): int
- setAptCode(aptCode: int): void
- getAptName(): String
- setAptName(aptName: String): void
- getDongCode(): String
- setDongCode(dongCode: String): void
- getDongName(): String
- setDongName(dongName: String): void
- getSidoName(): String
- setSidoName(sidoName: String): void
- getGugunName(): String
- setGugunName(gugunName: String): void
- getBuildYear(): int
- setBuildYear(buildYear: int): void
- getJibun(): String
- setJibun(jibun: String): void
- getLat(): String
- setLat(lat: String): void
- getLng(): String
- setLng(lng: String): void
- getImg(): String
- setImg(img: String): void
- getRecentPrice(): String
- setRecentPrice(recentPrice: String): void
- getDealAmount(): String
- setDealAmount(dealAmount: String): void
- getDealYear(): String
- setDealYear(dealYear: String): void
- getDealMonth(): String
- setDealMonth(dealMonth: String): void
- getDealDay(): String
- setDealDay(dealDay: String): void
- getArea(): String
- setArea(area: String): void
- getFloor(): String
- setFloor(floor: String): void
- getType(): String
- setType(type: String): void
- getRentMoney(): String
- setRentMoney(rentMoney: String): void

- get거래금액(): String
- set거래금액(거래금액: String): void
- get건축년도(): String
- set건축년도(건축년도: String): void
- get년(): String
- set년(년: String): void
- get도로명(): String
- set도로명(도로명: String): void
- get도로명건물본번호코드(): String
- set도로명건물본번호코드(도로명건물본번호코드: String): void
- get도로명건물부번호코드(): String
- set도로명건물부번호코드(도로명건물부번호코드: String): void
- get도로명시군구코드(): String
- set도로명시군구코드(도로명시군구코드: String): void
- get도로명일련번호코드(): String
- set도로명일련번호코드(도로명일련번호코드: String): void
- get도로명지상지하코드(): String
- set도로명지상지하코드(도로명지상지하코드: String): void
- get도로명코드(): String
- set도로명코드(도로명코드: String): void
- get법정동(): String
- set법정동(법정동: String): void
- get법정동본번호코드(): String
- set법정동본번호코드(법정동본번호코드: String): void
- get법정동부번호코드(): String
- set법정동부번호코드(법정동부번호코드: String): void
- get법정동시군구코드(): String
- set법정동시군구코드(법정동시군구코드: String): void
- get법정동읍면동코드(): String
- set법정동읍면동코드(법정동읍면동코드: String): void
- get아파트(): String
- set아파트(아파트: String): void
- get월(): String
- set월(월: String): void
- get일(): String
- set일(일: String): void
- get일련번호(): String
- set일련번호(일련번호: String): void
- get전용면적(): String
- set전용면적(전용면적: String): void
- get지번(): String
- set지번(지번: String): void
- get지역코드(): String
- set지역코드(지역코드: String): void
- get층(): String
- set층(층: String): void
- toString(): String

2) 나머지 DTO

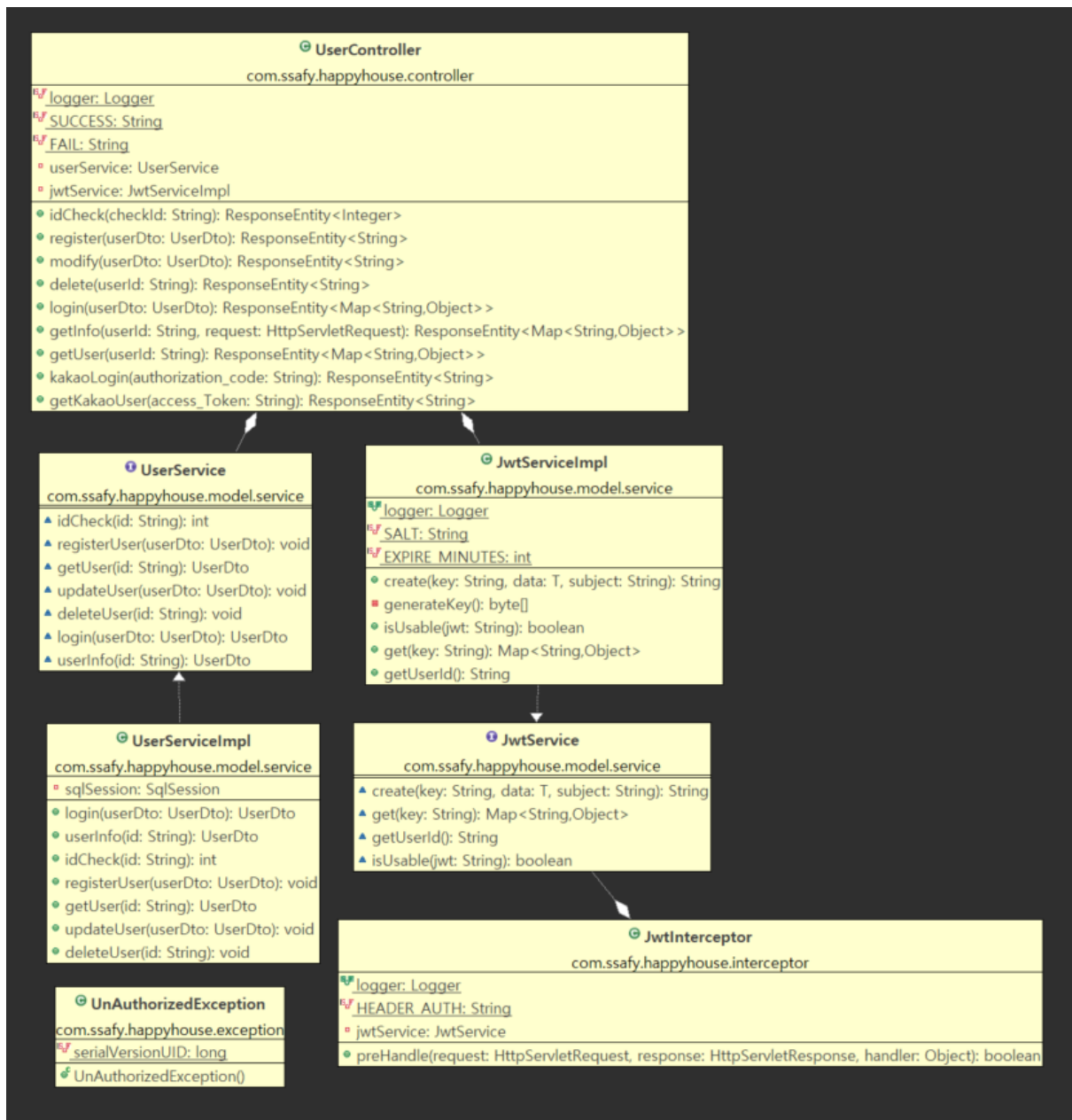
@BikeDto com.ssafy.happyhouse.model * name: String * address: String * distance: String * getName(): String * setName(name: String): void * getAddress(): String * setAddress(address: String): void * getDistance(): String * setDistance(distance: String): void	@BusDto com.ssafy.happyhouse.model * name: String * distance: String * getName(): String * setName(name: String): void * getDistance(): String * setDistance(distance: String): void @StarbucksDto com.ssafy.happyhouse.model * name: String * address: String * distance: String * getName(): String * setName(name: String): void * getAddress(): String * setAddress(address: String): void * getDistance(): String * setDistance(distance: String): void @TrainDto com.ssafy.happyhouse.model * name: String * distance: double * address: String * getName(): String * setName(name: String): void * getDistance(): double * setDistance(distance: double): void * getAddress(): String * setAddress(address: String): void @WeatherDto com.ssafy.happyhouse.model * low: String * high: String * getLow(): String * setLow(low: String): void * getHigh(): String * setHigh(high: String): void	@StoreDto com.ssafy.happyhouse.model * no: String * name: String * type: String * typeName: String * gupunName: String * dongCode: String * dongName: String * lat: String * lng: String * getNo(): String * setNo(no: String): void * getName(): String * setName(name: String): void * getType(): String * setType(type: String): void * getSidoName(): String * setSidoName(sidoName: String): void * getGugunName(): String * setGugunName(gugunName: String): void * getDongCode(): String * setDongCode(dongCode: String): void * getDongName(): String * setDongName(dongName: String): void * getLat(): String * setLat(lat: String): void * getLng(): String * setLng(lng: String): void @CommentDto com.ssafy.happyhouse.model * no: int * userId: String * comment: String * qnaco: int * getNo(): int * setNo(no: int): void * getUserId(): String * setUserId(userId: String): void * getComment(): String * setComment(comment: String): void * getDate(): String * setDate(date: String): void * getQnaco(): int * setQnaco(qnaco: int): void * toString(): String	@NoticeDto com.ssafy.happyhouse.model * no: int * userId: String * date: String * title: String * content: String * hit: int * fileInfoDtos: List<FileInfoDto> * getNo(): int * setNo(no: int): void * getUserId(): String * setUserId(userId: String): void * getDate(): String * setDate(date: String): void * getTitle(): String * setTitle(title: String): void * getContent(): String * setContent(content: String): void * getHit(): int * setHit(hit: int): void * fileInfoDtos: List<FileInfoDto> * setFileInfoDtos(fileInfoDtos: List<FileInfoDto>): void * toString(): String @EnvDto com.ssafy.happyhouse.model * facName: String * jobCode: String * jobName: String * mapCheckDate: String * checkAg: String * checkAgName: String * roadAddress: String * getFacName(): String * setFacName(facName: String): void * getJobCode(): String * setJobCode(jobCode: String): void * getJobName(): String * setJobName(jobName: String): void * getMapCheckDate(): String * setMapCheckDate(mapCheckDate: String): void * getCheckAg(): String * setCheckAg(checkAg: String): void * getCheckAgName(): String * setCheckAgName(checkAgName: String): void * getCheckDesc(): String * setCheckDesc(checkDesc: String): void * getRoadAddress(): String * setRoadAddress(roadAddress: String): void	@QnaParameterDto com.ssafy.happyhouse.model * pg: int * spp: int * start: int * key: String * word: String * QnaParameterDto() * getPg(): int * setPg(pg: int): void * getSpp(): int * setSpp(spp: int): void * getStart(): int * setStart(start: int): void * getKey(): String * setKey(key: String): void * getWord(): String * setWord(word: String): void @FileInfoDto com.ssafy.happyhouse.model * saveFolder: String * originFile: String * saveFile: String * getSaveFolder(): String * setSaveFolder(saveFolder: String): void * getOriginFile(): String * setOriginFile(originFile: String): void * getSaveFile(): String * setSaveFile(saveFile: String): void * toString(): String	@CoronaDto com.ssafy.happyhouse.model * region: String * tdTotal: int * tdtic: int * tdtOut: int * total: int * cure: int * dead: int * rate: int * getRegion(): String * setRegion(region: String): void * getTdTotal(): int * setTdTotal(tdTotal: int): void * getTdtic(): int * setTdtic(tdtic: int): void * getTdtOut(): int * setTdtOut(tdtOut: int): void * getTotal(): int * setTotal(total: int): void * getCure(): int * setCure(cure: int): void * getDead(): int * setDead(dead: int): void * getRate(): int * setRate(rate: int): void @QnaDto com.ssafy.happyhouse.model * no: int * userId: String * date: String * title: String * content: String * ansCount: int * getNo(): int * setNo(no: int): void * getUserId(): String * setUserId(userId: String): void * getDate(): String * setDate(date: String): void * getTitle(): String * setTitle(title: String): void * getContent(): String * setContent(content: String): void * getAnsCount(): int * setAnsCount(ansCount: int): void * toString(): String	@NewsDto com.ssafy.happyhouse.model * url: String * title: String * content: String * writing: String * date: String * imgUrl: String * getUrl(): String * setTitle(title: String): void * setContent(content: String): void * setWriting(writing: String): void * setDate(date: String): void @NoticeParameterDto com.ssafy.happyhouse.model * pg: int * spp: int * start: int * key: String * word: String * NoticeParameterDto() * getPg(): int * setPg(pg: int): void * getSpp(): int * setSpp(spp: int): void * getStart(): int * setStart(start: int): void * getKey(): String * setKey(key: String): void * getWord(): String * setWord(word: String): void
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User, 공지사항, Q&A, 상권, 환경, 주택 및 주변 편의, 복지 정보 DTO

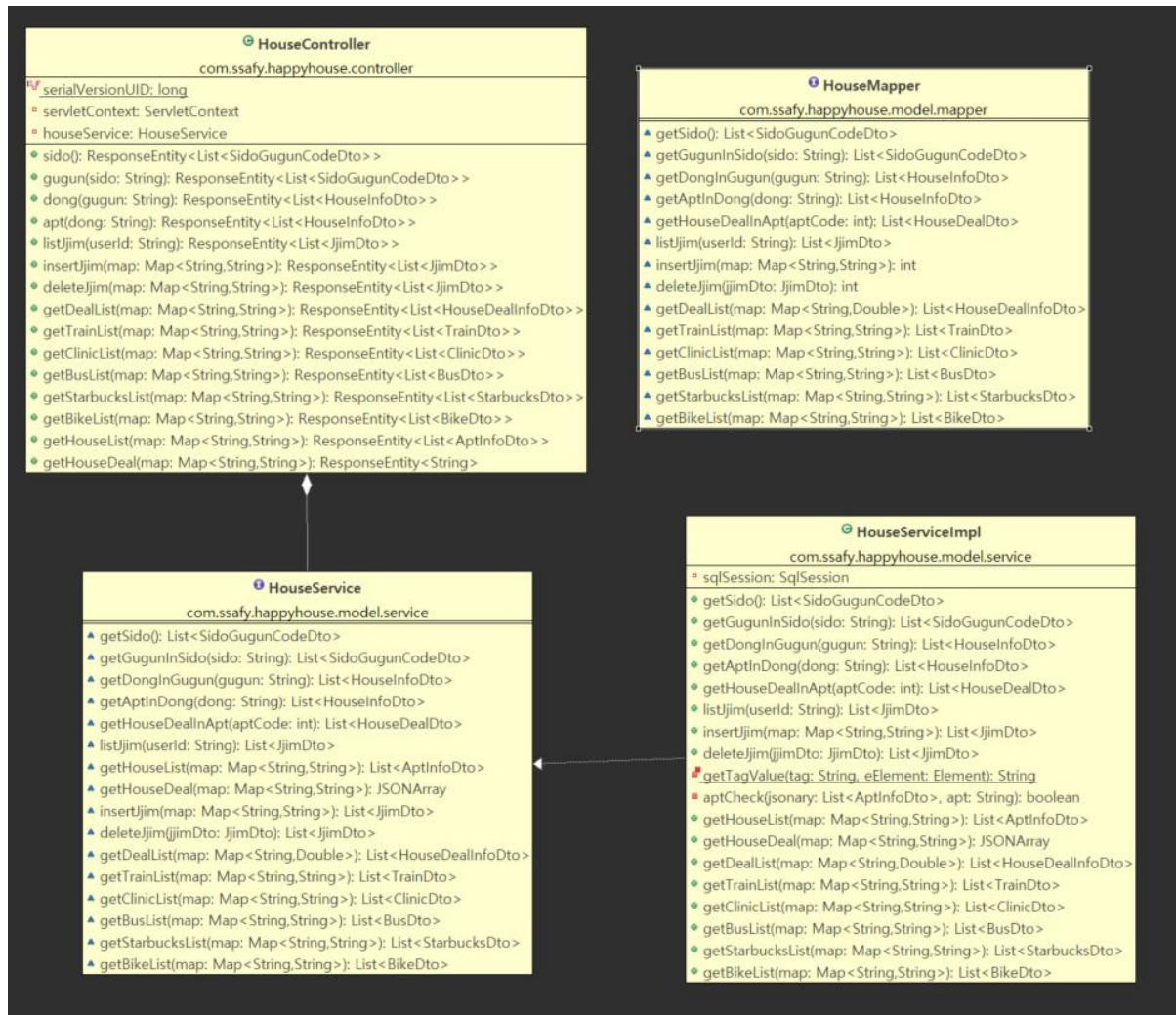
<div> <div>HouseInfoDto</div> <div>com.ssafy.happyhouse.model</div> <div> <div>aptCode: int</div> <div>aptName: String</div> <div>dongCode: String</div> <div>dongName: String</div> <div>sidoName: String</div> <div>gugunName: String</div> <div>buildYear: int</div> <div>jibun: String</div> <div>lat: String</div> <div>lng: String</div> <div>img: String</div> <div>recentPrice: String</div> </div> <div> <div>getSidoName(): String</div> <div>setSidoName(sidoName: String): void</div> <div>getGugunName(): String</div> <div>setGugunName(gugunName: String): void</div> <div>getRecentPrice(): String</div> <div>setRecentPrice(recentPrice: String): void</div> <div>getAptCode(): int</div> <div>setAptCode(aptCode: int): void</div> <div>getAptName(): String</div> <div>setAptName(aptName: String): void</div> <div>getDongCode(): String</div> <div>setDongCode(dongCode: String): void</div> <div>getDongName(): String</div> <div>setDongName(dongName: String): void</div> <div>getBuildYear(): int</div> <div>setBuildYear(buildYear: int): void</div> <div>getJibun(): String</div> <div>setJibun(jibun: String): void</div> <div>getLat(): String</div> <div>setLat(lat: String): void</div> <div>getLng(): String</div> <div>setLng(lng: String): void</div> <div>getImg(): String</div> <div>setImg(img: String): void</div> <div>toString(): String</div> </div> </div>	<div> <div>HouseDealDto</div> <div>com.ssafy.happyhouse.model</div> <div> <div>no: int</div> <div>aptCode: int</div> <div>dealAmount: String</div> <div>dealYear: String</div> <div>dealMonth: String</div> <div>dealDay: String</div> <div>area: String</div> <div>floor: String</div> <div>type: String</div> <div>rentMoney: String</div> </div> <div> <div>getNo(): int</div> <div>setNo(no: int): void</div> <div>getAptCode(): int</div> <div>setAptCode(aptCode: int): void</div> <div>getDealAmount(): String</div> <div>setDealAmount(dealAmount: String): void</div> <div>getDealYear(): String</div> <div>setDealYear(dealYear: String): void</div> <div>getDealMonth(): String</div> <div>setDealMonth(dealMonth: String): void</div> <div>getDealDay(): String</div> <div>setDealDay(dealDay: String): void</div> <div>getArea(): String</div> <div>setArea(area: String): void</div> <div>getFloor(): String</div> <div>setFloor(floor: String): void</div> <div>getType(): String</div> <div>setType(type: String): void</div> <div>getRentMoney(): String</div> <div>setRentMoney(rentMoney: String): void</div> </div> </div>	<div> <div>JjimDto</div> <div>com.ssafy.happyhouse.model</div> <div> <div>userId: String</div> <div>dongNo: int</div> <div>sidoName: String</div> <div>gugunName: String</div> <div>dongName: String</div> <div>dongCode: String</div> </div> <div> <div>getDongName(): String</div> <div>getDongCode(): String</div> <div>setDongCode(dongCode: String): void</div> <div>setDongName(dongName: String): void</div> <div>getSidoName(): String</div> <div>setSidoName(sidoName: String): void</div> <div>getGugunName(): String</div> <div>setGugunName(gugunName: String): void</div> <div>getUserId(): String</div> <div>setUserId(userId: String): void</div> <div>getDongNo(): int</div> <div>setDongNo(dongNo: int): void</div> </div> </div>
	<div> <div>SidoGugunCodeDto</div> <div>com.ssafy.happyhouse.model</div> <div> <div>sidoCode: String</div> <div>sidoName: String</div> <div>gugunCode: String</div> <div>gugunName: String</div> </div> <div> <div>getSidoCode(): String</div> <div>setSidoCode(sidoCode: String): void</div> <div>getSidoName(): String</div> <div>setSidoName(sidoName: String): void</div> <div>getGugunCode(): String</div> <div>setGugunCode(gugunCode: String): void</div> <div>getGugunName(): String</div> <div>setGugunName(gugunName: String): void</div> <div>toString(): String</div> </div> </div>	

주택 거래, 즐겨찾기 동네, 시/도 + 구/군 코드 DTO

3) User Class



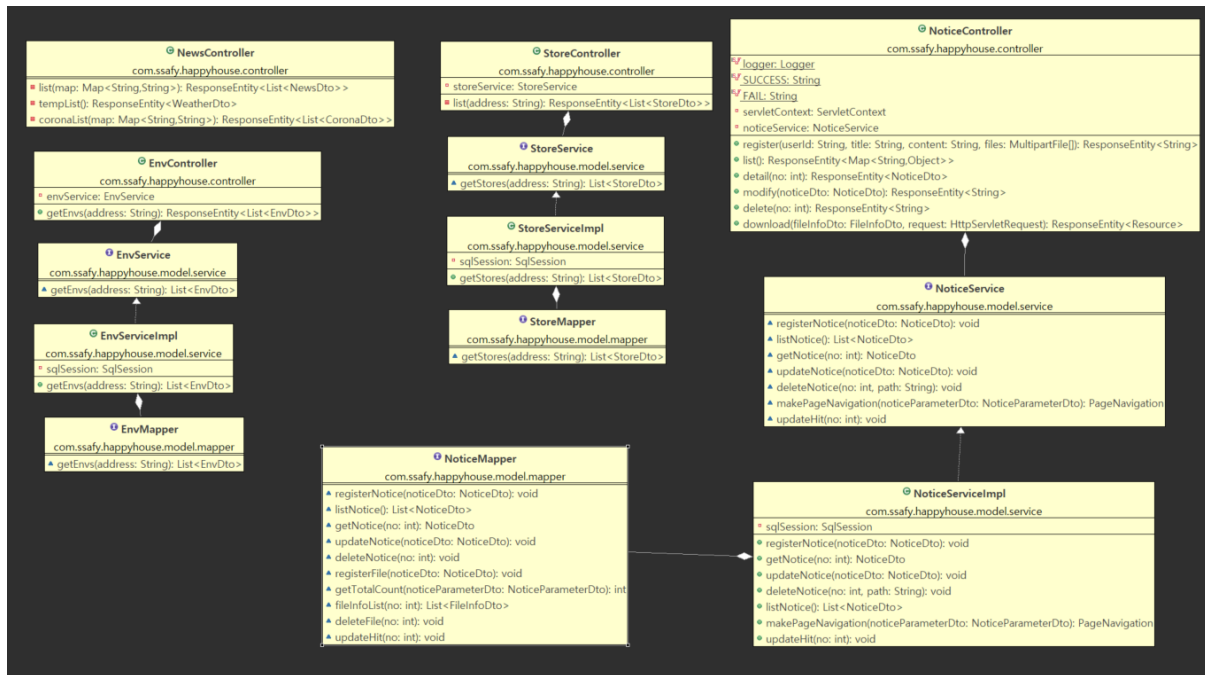
4) House class



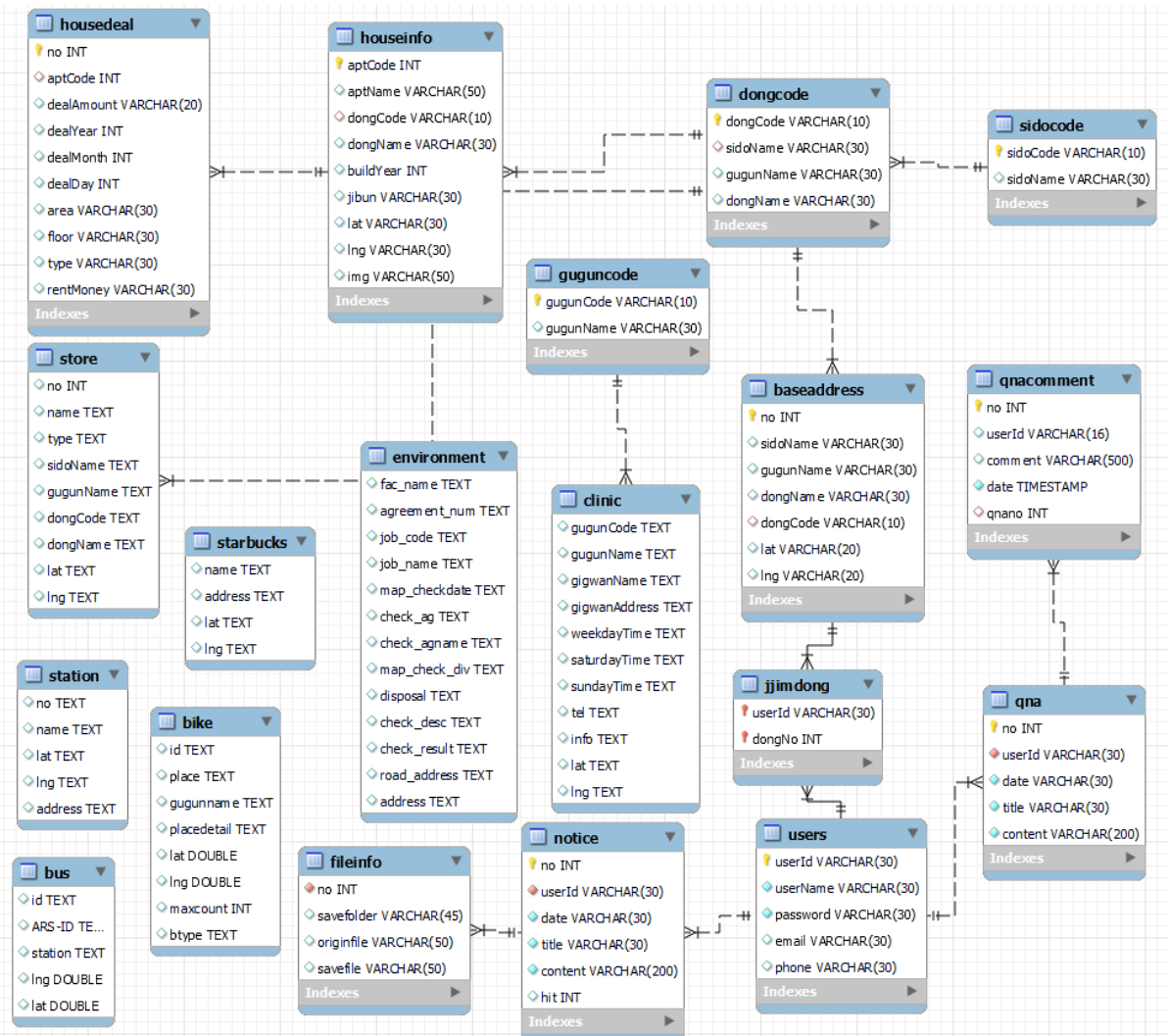
5) Q&A + 답글 class



6) news + store+ notice class



2. ER Diagram



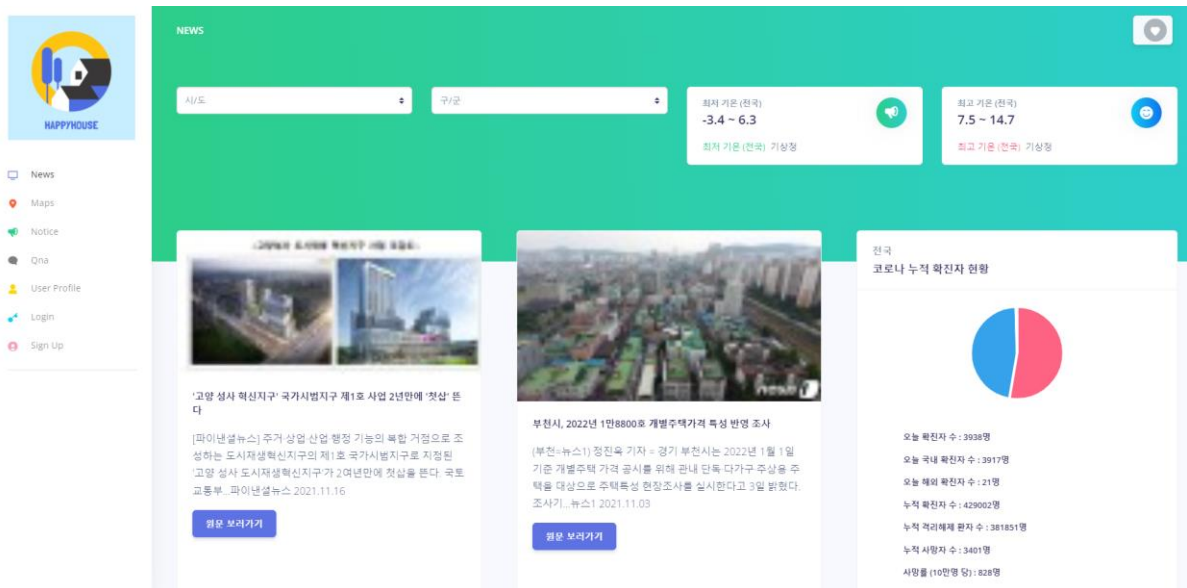
3. Class Diagram



(위 actor = USER, 아래 actor = ADMIN)

4. 화면 설계서

1) Main (news)



메인 화면 구성 1) 시/도, 구/군 선택 select box 및 전국 날씨 (최고 / 최저) 배치

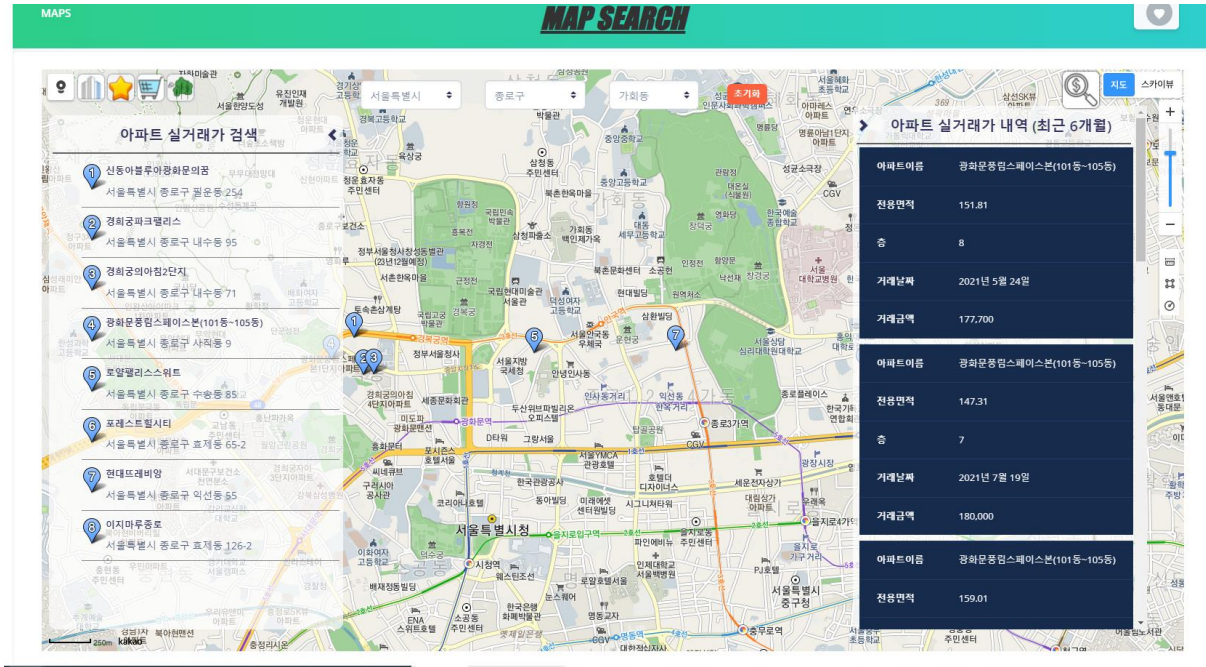
2) 뉴스 카드 형태로 5개 배치

3) 코로나 현황 뉴스 옆 배치

4) 왼쪽 navbar + 메인 이미지 배치

2) Map

i. 초기 화면



Map 화면 구성

- 1) 오른쪽 = 아파트 실거래가 내역, 왼쪽 = 줌 + 검색하는 정보 목록 표출 (애니메이션 이용)
- 2) 시 군 동 select box + 초기화 버튼 배치
- 3) Select box 위치에 가격 검색 mode 이용 시 슬라이더 배치

ii. 상세 정보 화면 (Modal)



Map 상세화면

- 1) Modal로 아파트 상세 정보 IMG + 테이블 배치
- 2) 그래프 배치
- 3) 데이터 + 데이터 그래프 배치

3) 공지사항

i. 목록 화면

NOTICELIST

관리자님 환영합니다!

공지사항

글쓰기

Q Search Table

No	작성자	제목	조회수	작성일
48	admin	해피하우스 무료로 이용 가능한 로고 이미지	1	2021-11-24
47	admin	해피하우스 홈페이지 배포 일정	25	2021-11-22
46	admin	카카오 로그인 사용 가능 안내	16	2021-11-21
43	admin	회원가입 시 아이디 중복검사 기능 추가	16	2021-11-21
42	admin	공지사항 이용 규칙	11	2021-11-21
40	admin	지역별 아파트 실거래가를 활용한 매물 가격 비교	6	2021-11-21
36	admin	파일 업로드 및 다운로드	25	2021-11-21
35	admin	로그인 후 QnA 작성 및 수정, 삭제 가능	18	2021-11-21
34	admin	슬라이딩을 통한 아파트 실거래가 가격 검색	6	2021-11-21
33	admin	지역별 최근 뉴스 크롤링	4	2021-11-21

Rows per page: 101 - 10 of 29PreviousNext

공지 화면

- 1) Table 배치 (작성자 + 제목 + 조회수 +작성일)
- 2) 글쓰기 버튼 배치
- 3) 검색 bar 배치

ii. 수정, 상세정보 화면

NOTICEUPDATE

관리자님 환영합니다!

공지사항

해피하우스 무료로 이용 가능한 로고 이미지

해피하우스 로고 이미지 무료로 다운로드가 가능합니다.
글 수정합니다.

글수정

목록

> 2021 SSAFY

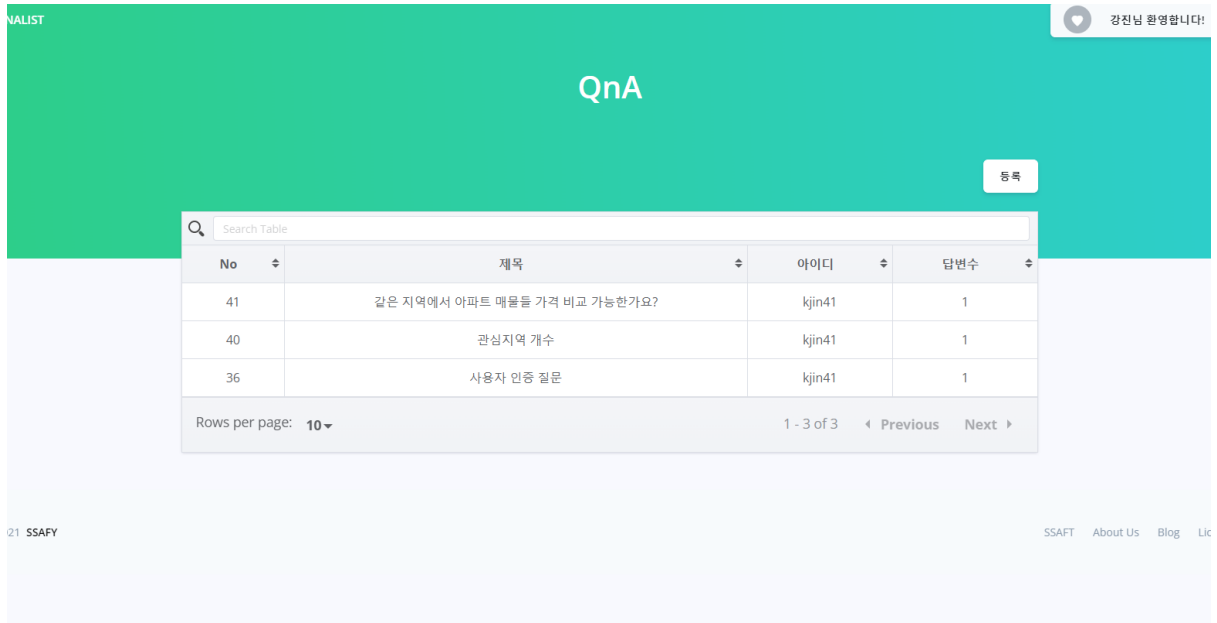
SSAFT About Us Blog Licens

수정 상세정보 화면

- 1) 상세 정보 => 글 내용 답을 카드 배치, 글 수정, 삭제 버튼 배치
- 2) 수정 => 글 제목: input, 글 내용: textarea 배치, 글 수정, 목록 버튼 배치

4) Q&A

i. 목록 화면



공지 화면

- 1) Table 배치 (작성자 + 제목 + 조회수 + 작성일)
- 2) 글쓰기 버튼 배치
- 3) 검색 bar 배치

ii. 수정, 등록, 정보 화면

The screenshot shows a web application titled "QnA" with a teal header. In the top left corner, it says "QNAVIEW". In the top right corner, there is a notification bubble that says "강진님 환영합니다!". Below the header, there is a form with the following elements:

- A text input field with the placeholder text "관심지역 개수".
- A text area with the placeholder text "관심지역은 몇개까지 넣을수있나요?".
- Three buttons: "수정" (blue), "삭제" (red), and "등록" (green).
- A text input field with a "등록" (blue) button next to it.
- A section for a user named "admin (2021-11-25 13:30:59)" with the text "관심지역은 개수 상관없이 지정할 수 있습니다!". Below this text are "수정" (blue) and "삭제" (red) buttons.

수정, 등록, 정보 화면

- 1) 등록 시 input + textarea 배치, 등록 버튼 배치
- 2) 정보, 수정 => 글 제목, 글 내용, 답글 등록 textarea, 답글 내역 배치, 각각 수정, 삭제 등 버튼 배치

5) 회원가입

i. 가입 화면

회원가입 화면

- 1) 회원 정보를 받는 input form + 라디오버튼 + 등록 버튼 배치

6) 로그인

i. 로그인 화면



로그인 화면

- 1) 소셜 로그인 버튼 + 아이디 비밀번호 input + 로그인 등의 버튼 배치

7) 사용자 정보

i. 정보 화면, 수정화면

PROFILE

강진님 환영합니다!

My
Page

Edit profile

설정

USER INFORMATION

ID

kjin41

Name

강진

Email address

kjin4_1@naver.com

Phone Number

01047639098

정보 화면, 수정 화면

- 1) 각 정보를 담은 input 화면 이용, (정보 = disabled이용)
- 2) 수정 버튼 배치