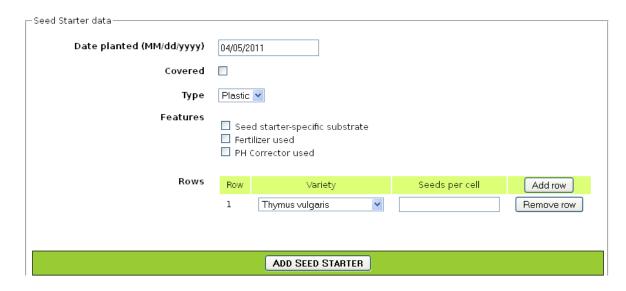
• https://www.thymeleaf.org/doc/tutorials/3.0/thymeleafspring.html#integrating-thymeleaf-with-spring



Seed Starter List

Date planted	Covered	Туре	Features	Rows		
03/20/2011	yes	Wood	Seed starter-specific substrate, PH Corrector used		1 Thymus vulgaris	10
					2 Thymus pseudolaginosus	15
					3 Thymus x citriodorus	20
03/25/2011	no	Plastic	Fertilizer used		1 Thymus herba-barona	5
					2 Thymus serpyllum	10

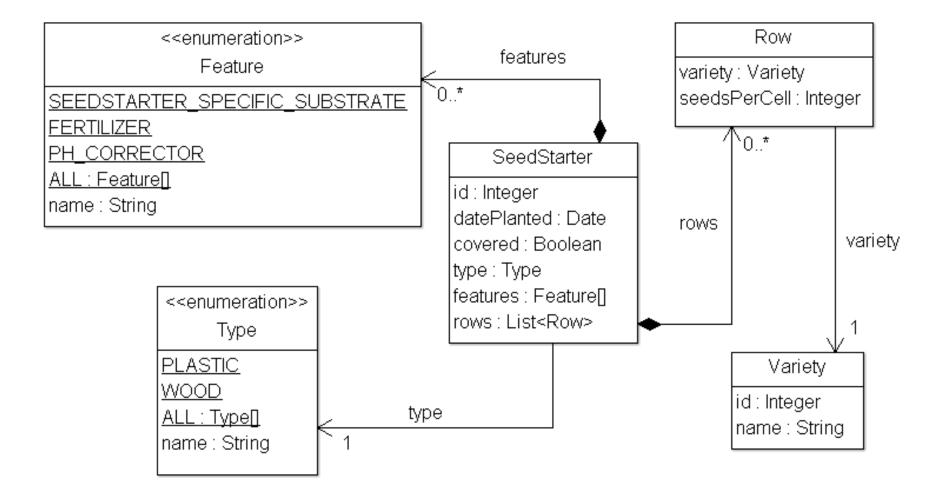
Add new Seed Starter



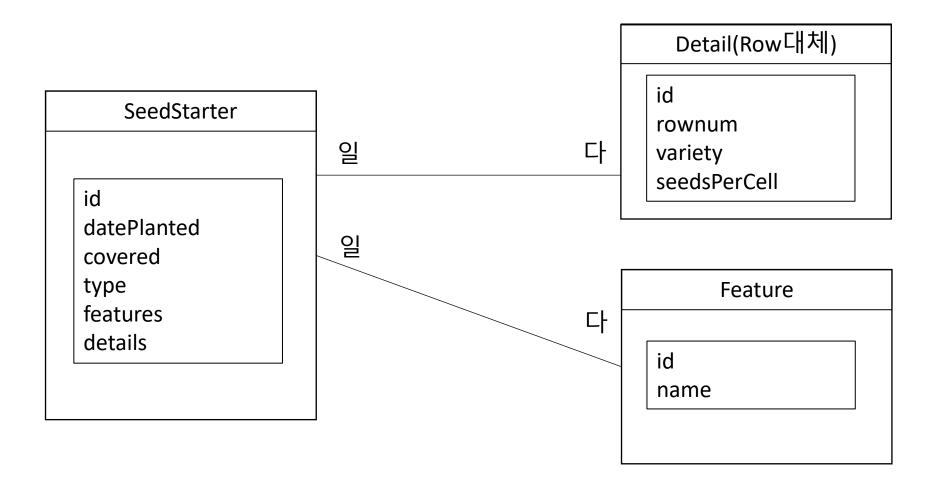
• https://www.thymeleaf.org/doc/tutorials/3.0/thymeleafspring.html#integrating-thymeleaf-with-spring



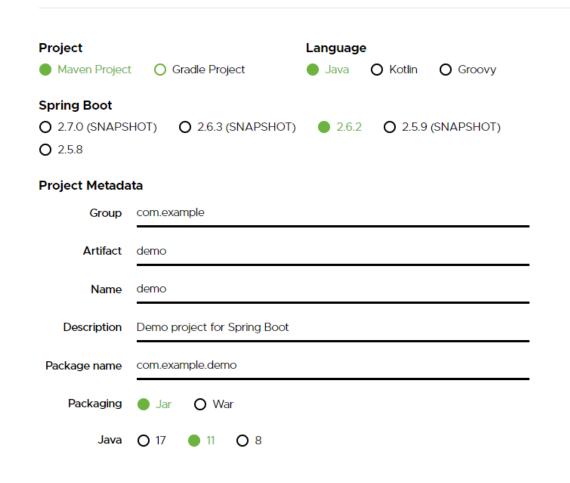
• ERD

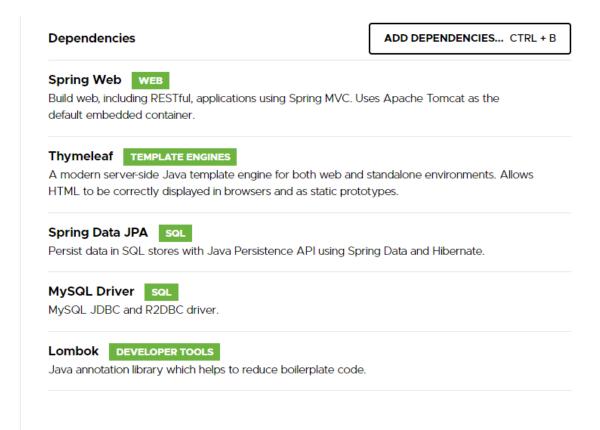


• 수정된 ERD

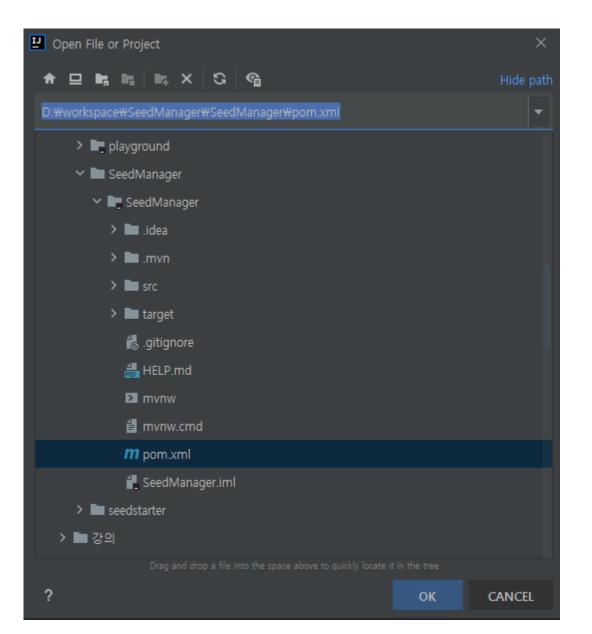


- 프로젝트 준비
 - https://start.spring.io/

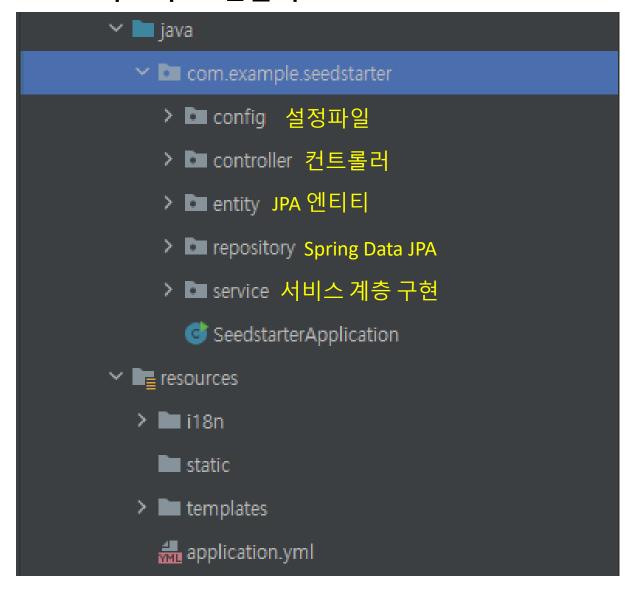




- 프로젝트 준비
 - 인텔리제이에서 pom.xml 선택
 - 프로젝트로 열기



• 프로젝트 구조 만들기



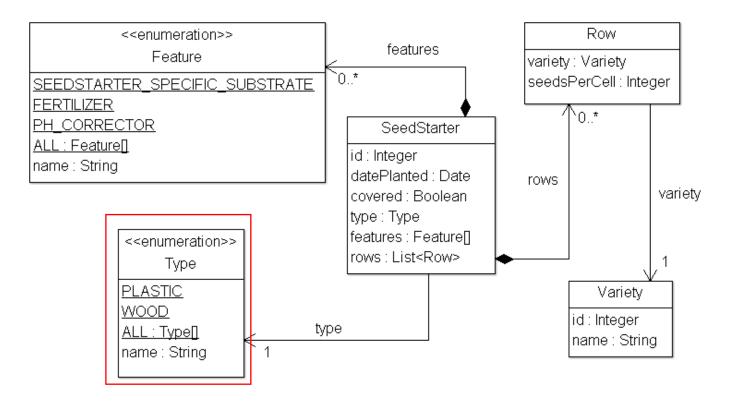
repository와 entity를 같은 폴더에 두는 것도 고려해 볼만함

• SeedStarter 엔티티

```
@Getter
@Setter
@Entity
public class SeedStarter {
  @Id @GeneratedValue(strategy = GenerationType.IDENTITY)
  @Column(name = "SEED_STARTER_ID")
  private Long id;
  private LocalDateTime datePlanted;
  private boolean covered;
  @Enumerated(EnumType.STRING)
  private Type type;
```

Type(Enum)

```
public enum Type {
    PLASTIC, WOOD
}
```



• SeedStarter에 Feature 리스트 추가

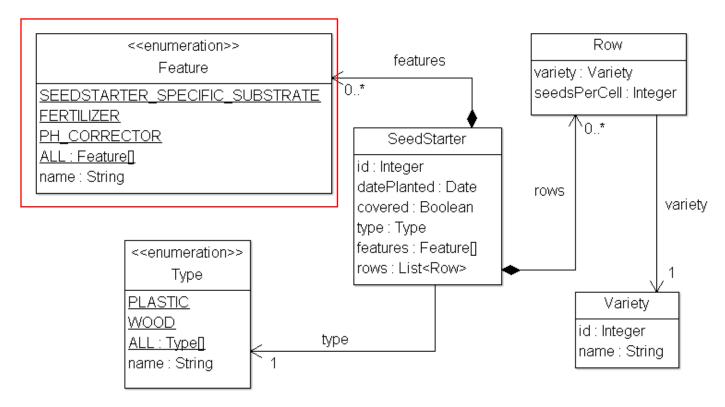
```
public class SeedStarter {
  @Id @GeneratedValue(strategy = GenerationType.IDENTITY)
  @Column(name = "SEED_STARTER_ID")
  private Long id;
  private LocalDateTime datePlanted;
  private boolean covered;
  @Enumerated(EnumType.STRING)
  private Type type;
  @OneToMany(mappedBy = "seedStarter", cascade = CascadeType.PERSIST, orphanRemoval = true)
  private List<Feature> features = new ArrayList<>();
```

• Feature 엔티티

```
@Getter
@Setter
@Entity
public class Feature {
  @ ld
  @GeneratedValue(strategy = GenerationType.IDENTITY)
  @Column(name = "FEATURE_ID")
  private Long id;
  @Enumerated(EnumType.STRING)
  private FeatureType name;
  @ManyToOne(fetch = FetchType.LAZY)
  @JoinColumn(name = "SEED_STARTER_ID")
  private SeedStarter seedStarter = new SeedStarter();
```

FeatureType(enum)

```
public enum FeatureType {
    SUBSTRATE, FERTILIZER, PH_CORRECTOR
}
```



• SeedStarter에 Detail 리스트 추가

```
@OneToMany(mappedBy = "seedStarter", cascade = CascadeType.PERSIST, orphanRemoval = true)
private List<Detail> details = new ArrayList<>();
```

• Detail 엔티티 설계

```
@Getter
@Setter
@Entity
public class Detail {
  @Id
  @GeneratedValue(strategy = GenerationType.IDENTITY)
  @Column(name = "DETAIL_ID")
  private Long id;
  private int rowNum;
  private int seedPerCell;
  private String variety;
  @ManyToOne(fetch = FetchType.LAZY)
  @JoinColumn(name = "SEED_STARTER_ID")
  private SeedStarter seedStarter;
```