1. 컬렉션 API

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| 작업 | 전송방식 | URI | Parameter(Request Body) |
| 컬렉션 등록 | POST | /collections/ | [ Request Body –CollectionDTO , Multipartfile]  CollectionVO collection  List<SongVO> songs  List<TagVO> tags  MultipartFIle file  [ Response Body –String]  성공 : success |
| 특정 사용자에 대한 모든 컬렉션들 조회 | GET | /collections/userid/{userId}  ?page=#&amount=# | [ Response Body – List<CollectionDTO> ]  CollectionVO collection  List<SongVO> songs  List<TagVO> tags  List<ReplyVO> replys  List<LikeVO>likes |
| 특정 컬렉션 조회 | GET | /collections/cno/{cno} | [ Response Body – CollectionDTO ]  CollectionVO collection  List<SongVO> songs  List<TagVO> tags  List<ReplyVO> replys  List<LikeVO>likes |
| 컬렉션 수정 | PUT | /collections/ | [ Request Body – CollectionDTO, Multipartfile]  CollectionVO collection  List<SongVO> songs  List<TagVO> tags  MultipartFIle file  [ Response Body –String]  성공 : success |
| 컬렉션 삭제 | DELETE | /collections/{cno} | [Response Body –String]  성공: success  실패:internal\_server\_error |
| 최근 팔로워들의 업데이트 목록 조회 | GET | /collections/recent/followers/{userId}  ?page=#&amount=# | [ Response Body – List<CollectionDTO> ]  CollectionVO collection  List<SongVO> songs  List<TagVO> tags  List<ReplyVO> replys  List<LikeVO>likes |

2. OCR API

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| 작업 | 전송방식 | URI | Parameter(Request Body) |
| 이미지 텍스트 인식 | POST | /ocr/ | [Request Body-Multipartfile ]  [Response Body – List<SongVO> ]  String musicName  String singer |

3. 좋아요 API

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| 작업 | 전송방식 | URI | Parameter(Request Body) |
| 좋아요 등록 | POST | /collections/likes/ | [ Request Body – LikeVO ]  Int cno  String fromUserId  [ Response Body –String]  성공 : success |
| 특정 컬렉션에 대한 좋아요 유저리스트 조회 | GET | /collections/likes/{cno}  ?page=#&amount=# | [ Response Body-List<LikeVO>]  Int cno  String fromUserId |
| 특정 컬렉션에 대한 좋아요 수 조회 | GET | /collections/likes/count/{cno} | [ Response Body – int ]  Int count |
| 좋아요 취소 | DELETE | /collections/likes/{cno}/{fromUserId} | [ Response Body –String]  성공 : success |

4. 댓글 API

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| 작업 | 전송방식 | URI | Parameter(Request Body) |
| 댓글 등록 | POST | /collections/replys/ | <ReplyVO>  Int cno  String fromUserId  String content |
| 특정 댓글 조회 | GET | /collections/replys/{rno} | [Response Body – ReplyVO]  Int rno  Int cno  String fromUserId |
| 특정 컬렉션에 대한 모든 댓글들 조회 | GET | /collections/replys/all/{cno}  ?page=#&amount=# | [Request Body – List<ReplyVO>  Int rno  Int cno  String fromUserId  String content |
| 특정 컬렉션에 대한 댓글 수정 | PUT | /collections/replys/ | [Request Body – ReplyVO]  Int rno  String content  [ Response Body – String]  성공 : success |
| 특정 댓글 삭제 | DELETE | /collections/replys/{rno} | [ Response Body – String ]  성공 : success |

5. 회원 API

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| 작업 | 전송방식 | URI | Parameter(Request Body) |
| 회원 정보 등록 | POST | /members/ | [Request Body – MemberVO, Multipartfile]  String userId;  String userPw;  String userName;  String userEmail  Int userBirthYear;  Int userBirthMonth  Int userBirthDay  Multipartfile file  [Response Body –String]  성공: success  실패:internal\_server\_error |
| 회원 정보 조회 | GET | /members/{userId} | [ Reponse Body – MemberVO ]  String userId;  String userPw;  String userName;  String userEmail  Int userBirthYear;  Int userBirthMonth  Int userBirthDay |
| 회원 정보 수정 | PUT | /members/ | <MemberVO, Multipartfile >  String userId;  String userPw;  String userName;  String userEmail  Int userBirthYear;  Int userBirthMonth  Int userBirthDay;  Multipartfile file |
| 회원 정보 삭제 | DELETE | /members/{userId} | [Response Body –String]  성공: success  실패:internal\_server\_error |
| 아이디 중복 검사 | GET | /members/check/{userId} | [ Response Body – String ]  아이디 존재:internal\_server\_error  아이디 미존재:success |
| 로그인 검사 | POST | /members/doLogin | <MemberVO>  String userId;  String userPw;  - ResponseBody<String> -  성공:success  아이디미존재:NotExistUserId  패스워드불일치:NotExistPassword  권한없을때:NotExistAuthority |

6. 팔로우 API

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| 작업 | 전송방식 | URI | Parameter(Request Body) |
| 팔로우 추가 | POST | /members/follows/ | [ Request Body -FollowerVO]  String fromUserId  String toUserId  [Response Body –String]  성공: success  실패:internal\_server\_error |
| 팔로워 조회 | GET | /members/follows/follower/{userId}  ?page=#&amount=# | [Response Body – List<String>]  List<String> followers |
| 팔로잉 조회 | GET | /members/follows/following/{userId}  ?page=#&amount=# | [Response Body – List<String>]  List<String> followers |
| 팔로우 삭제 | DELETE | /members /follows/{fromUserId}/{toUserId} | [Response Body –String]  성공: success  실패:internal\_server\_error |

7. 검색 API

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| 작업 | 전송방식 | URI | Parameter(Request Body) |
| 태그로 검색 | GET | /search/tag/{content}  ?page=#&amount=# | [ Response Body – List<CollectionDTO> ]  CollectionVO collection  List<SongVO> songs  List<TagVO> tags  List<ReplyVO> replys  List<LikeVO>likes |
| 컬렉션명으로 검색 | GET | /search/collectionname/{content}  ?page=#&amount=# |
| 곡명으로 검색 | GET | /search/musicname/{content}  ?page=#&amount=# |
| 사용자 검색 | GET | /search/userid/{content}  ?page=#&amount=# | [ Reponse Body – MemberVO ]  String userId;  String userPw;  String userName;  String userEmail  Int userBirthYear;  Int userBirthMonth  Int userBirthDay |

8.AWS S3 API

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| 작업 | 전송방식 | URI | Parameter(Request Body) |
| 이미지 등록 | POST | /aws/s3/{foldername}/{filenmae} | [Response Body – MultiPartFile]  MultiPartFile file |
| 이미지 삭제 | DELETE | /aws/s3/{foldername}/{filenmae} |  |

8. 곡 API

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| 작업 | 전송방식 | URI | Parameter(Request Body) |
| 곡 등록 | POST | /collections/songs/ | [Requset Body – SongVO]  Int cno  String musicName  String singer  [Response Body –String]  성공: success  실패:internal\_server\_error |
| 특정 컬렉션에 대한 곡 리스트 조회 | GET | /collections/songs/cno/{cno} | [Response Body –List<SongVO>]  int sno  int cno  String musicName  String singer  String videoId |
| 특정 곡 조회 | GET | /collections/songs/sno/{sno} | [Response Body – SongVO]  int sno  int cno  String musicName  String singer  String videoId |
| 곡 수정 | PUT | /collections/songs/ | [Requset Body – SongVO]  Int cno  String musicName  String singer  [Response Body –String]  성공: success  실패:internal\_server\_error |
| 곡 삭제 | DELETE | /collections/songs/{sno} | [Requset Body – SongVO]  Int cno  String musicName  String singer  [Response Body –String]  성공: success  실패:internal\_server\_error |

9. 태그 API

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| 작업 | 전송방식 | URI | Parameter(Request Body) |
| 태그 등록 | POST | /collections/tags/ | [Request Body – TagVO]  int cno  String tag  [Response Body –String]  성공: success  실패:internal\_server\_error |
| 특정 태그 조회 | GET | /collections/tags/{tno} | [Response Body – TagVO]  Int tno  Int cno  String tag |
| 특정 컬렉션에 대한 모든 태그들 조회 | GET | /collections/tags/all/{cno} | [Response Body – List<TagVO>]  Int tno  Int cno  String tag |
| 특정 태그 수정 | PUT | /collections/tags/ | Request Body – TagVO]  int tno  String tag  [Response Body –String]  성공: success  실패:internal\_server\_error |
| 특정 태그 삭제 | DELETE | /collections/tags/{tno} | [Response Body –String]  성공: success  실패:internal\_server\_error |