LicenseService Applicant License 0..* Licenseld: [1..100] License: license ApplicantId: [1..1000] LicenseType Applicant: applicant ApplicantName applies allocates LicenseStatus LicenseRequest ApplicantType ProductId UnderReviewDecision PhoneNumber **EmailAddress** 0..* Licenseld: [1..100] submits **^**0..* provides requests provides UnderReviewDecision LicenseRepository 0..* Licenseld: [1..100] EntityManager LicenseRequest UnderReviewDecision Requestld Reason ApplicantRepository Licenseld: [1..100] LicenseType EntityManager ProductId ApplyTime 0..*^ provides LicenseRequestsRepository EntityManager

Task 1.1 Doman diagram for Intelligent Information System

Relationships exist in this diagram:

- 1. Composition: An association representing a whole-part relationship. The relationships between license and license service, license request and license service, under review decision and license service are all in this type.
- 2. Import: A relationship between packages, indicating that one package includes all the definitions of another. The license, license request and applicant have an import relationship with their repositories.
- 3. Association: A relationship between the members of two classifiers. The relationship between applicant and license service is in this type.

ChineseTranslator ChineseAnnotation 0. InputType: English AnnotationId: 1 produces OutputType: Chinese OutputType: Chinese WordNumber: 1000 WordNumber: 1000 inputs imports 0. Result SpanishTranslator SpanishAnnotation Data LanguageType: English 0. InputType: English AnnotationId: 2 WordNumber: 1000 imports LanguageType: English produces OutputType: Spanish OutputType: Spanish ChineseAnnotation WordNumber: 1000 WordNumber: 1000 WordNumber: 1000 inputs SpanishAnnotation FrenchAnnotation imports inputs FrenchTranslator FrenchAnnotation 0... AnnotationId: 3 InputType: English produces OutputType: French OutputType: French WordNumber: 1000 WordNumber: 1000

Task 1.2 Doman diagram for Analysis Engine

Relationships exist in this diagram:

- 1. Composition: An association representing a whole-part relationship. The relationships between the annotations and the result are all in this type.
- 2. Import: A relationship between packages, indicating that one package includes all the definitions of another. The relationship between data and Chinese Translator/Spanish Translator/French Translator are in this type.
- 3. Association: A relationship between the members of two classifiers. The relationships between translators and annotations in different languages fall in this type.