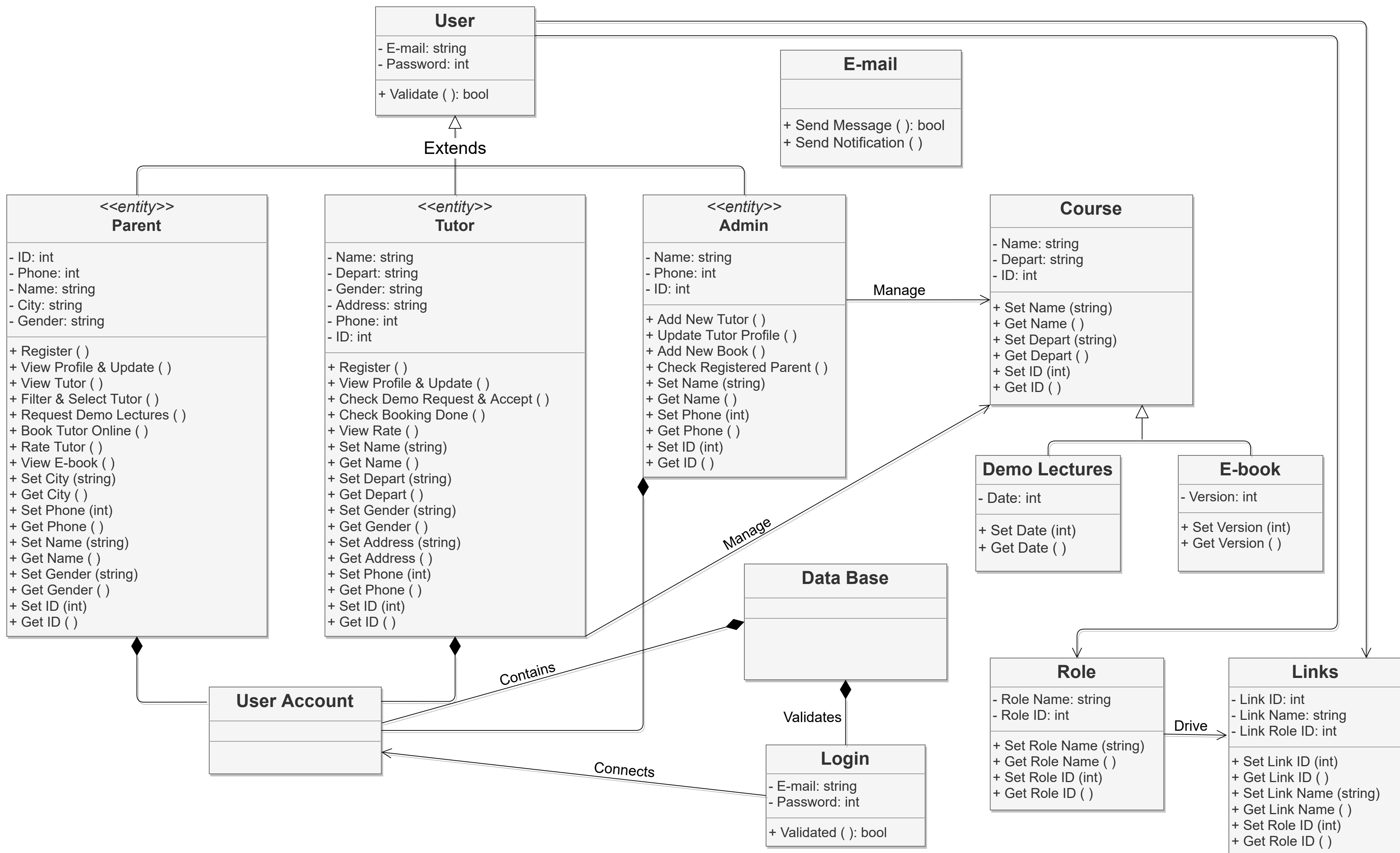
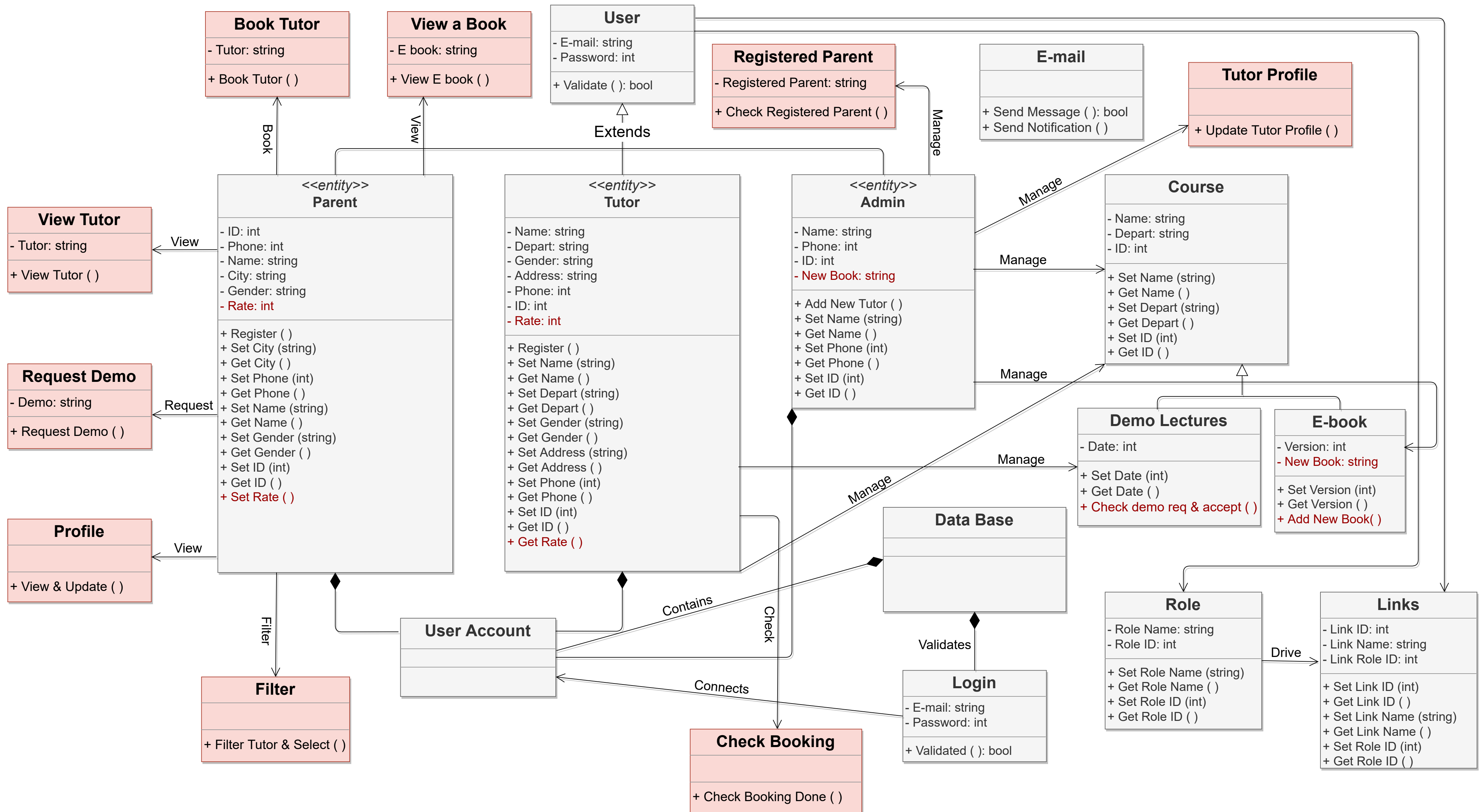


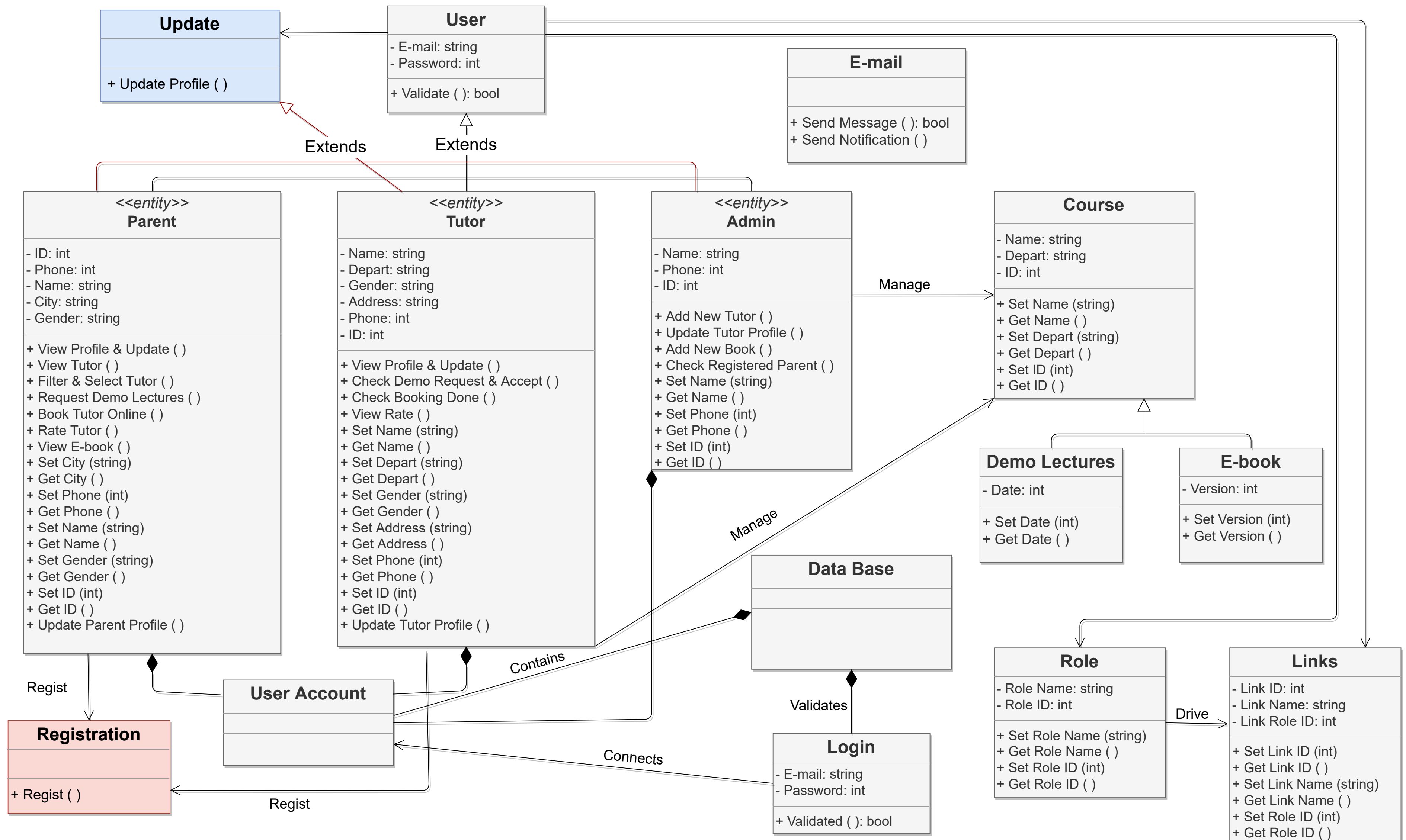
Class Diagram



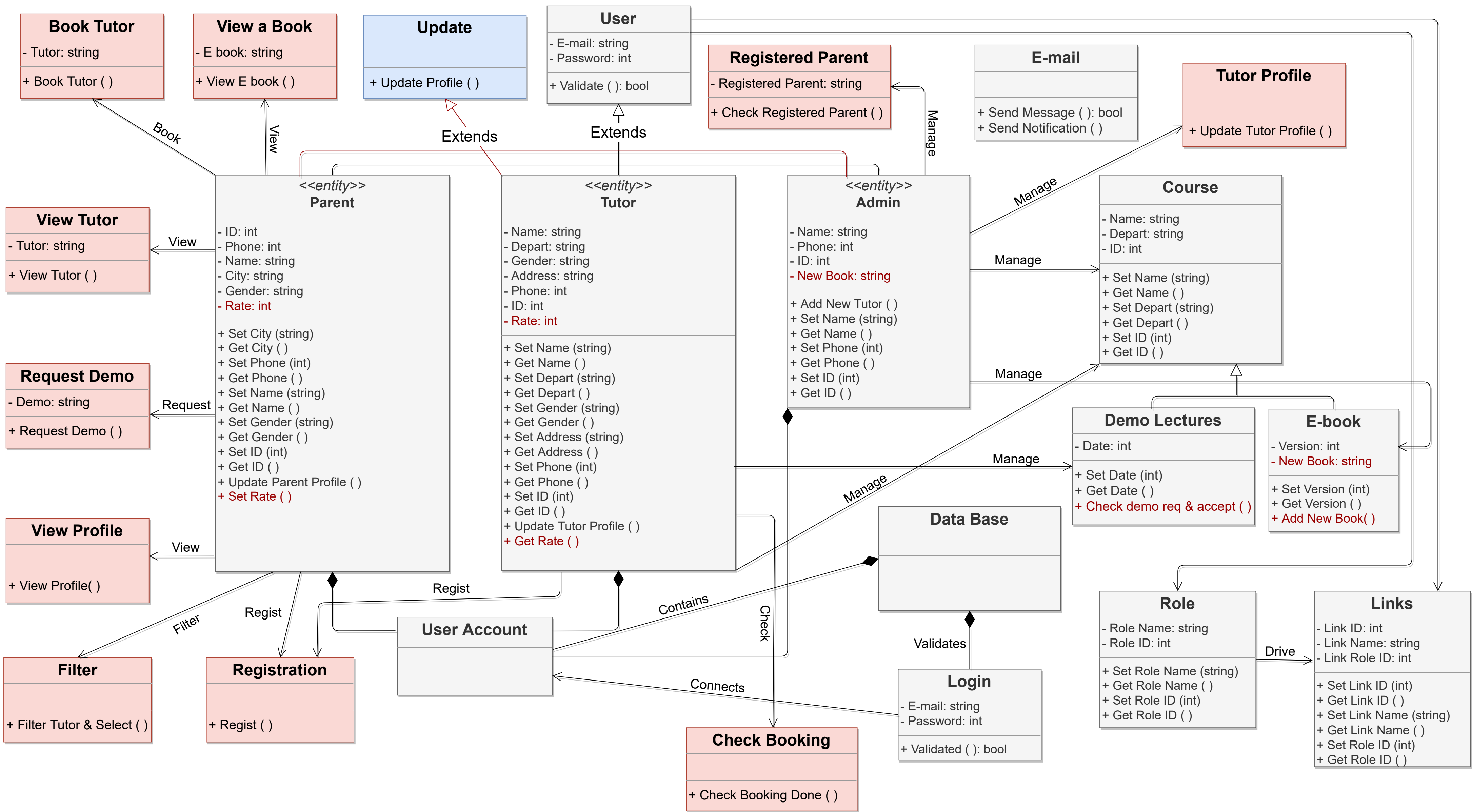
Class Diagram (SRP).



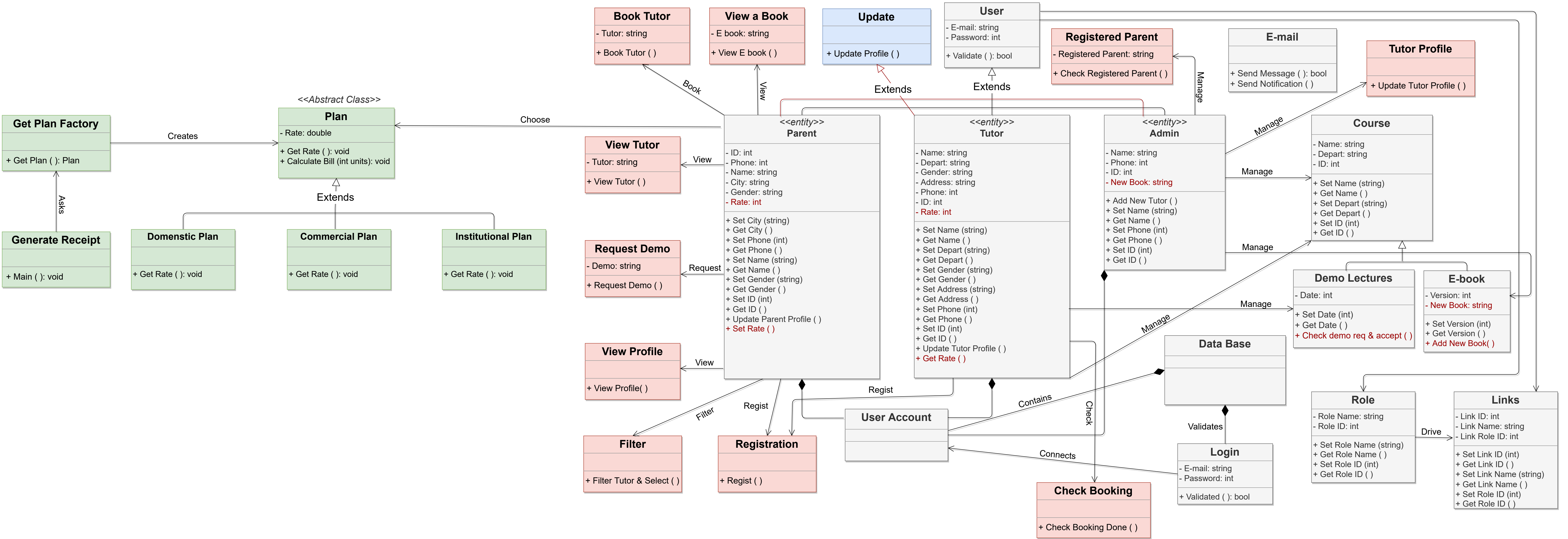
Class Diagram (OCP).



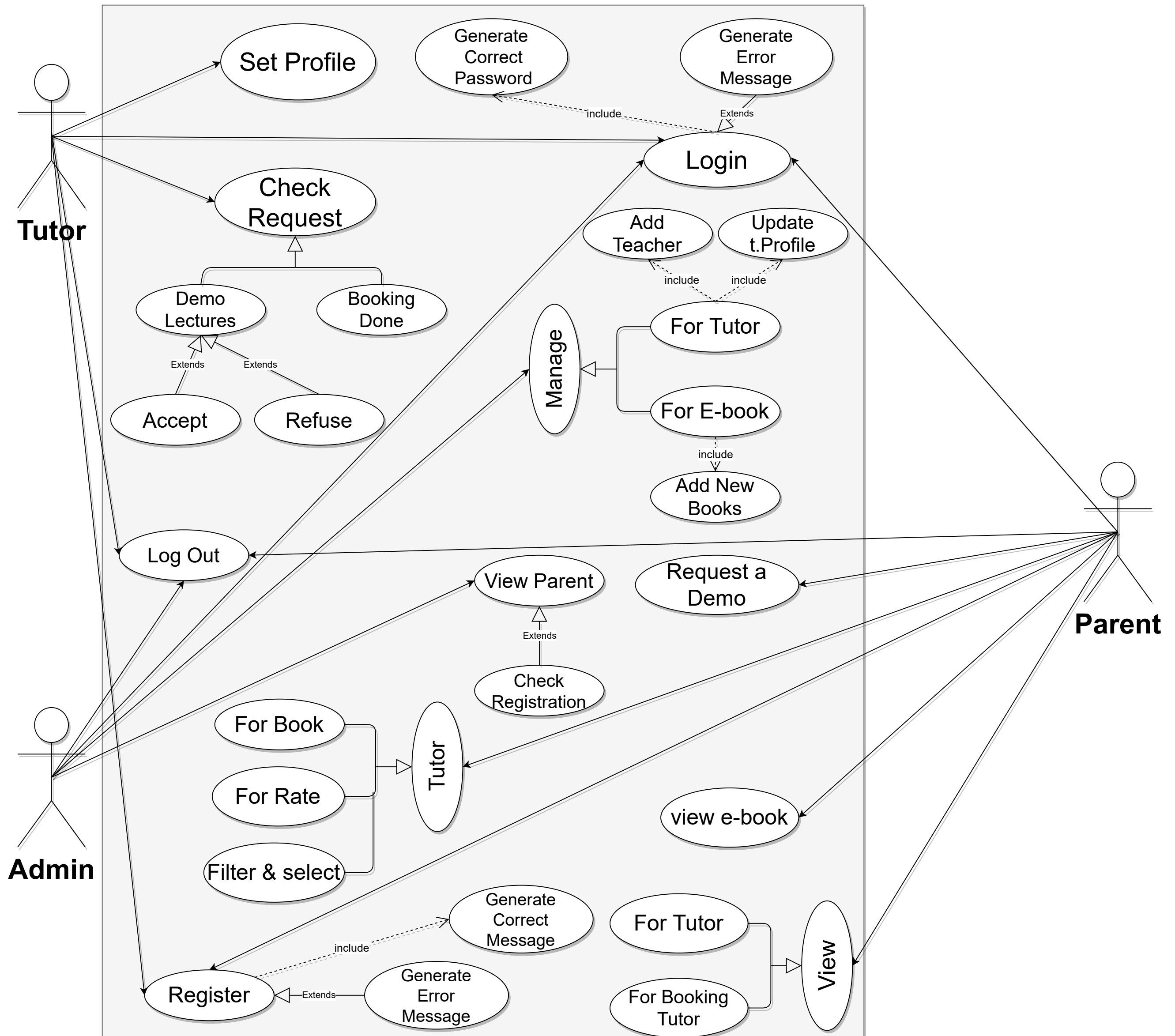
Class Diagram (SRP & OCP).



Class Diagram (SRP & OCP & Factory Pattern).



Use Case Diagram



<u>id</u>	<u>1</u>
<u>name</u>	register
<u>goal</u>	to allow actor register to the system
<u>initiator</u>	Parent, tutor
<u>Pre conditions</u>	none
<u>Post conditions</u>	Actor can access system based their role in system
<u>Main success scenario</u>	1-actor expect system provide username, e-mail and password. 2-system sends info to data base. 3-system displays a profile to actor.
<u>Unsuccessful scenario</u>	1-actor enters information not valid such as conformation password not same as the password entered. 2-actor cancels registration in the middle of process.
<u>id</u>	<u>2</u>
<u>name</u>	Login
<u>goal</u>	to allow actor login to the system
<u>initiator</u>	User(parent, tutor, admin)
<u>Pre conditions</u>	If it is first time in the system user should make register (parent) or her data has been entered in the system (tutor, admin).
<u>Post conditions</u>	Actor can access system based their role in system.
<u>Main success scenario</u>	1-parent expect system provide username and password. 2-system sends info to data base and check from it. 3-system displays a profile to parent.
<u>Unsuccessful scenario</u>	1-parent enters information not valid such as password doesn't match. 2-parent cancels login in the middle of process.
<u>id</u>	<u>3</u>
<u>name</u>	View tutor
<u>goal</u>	To allow parent view tutor.
<u>initiator</u>	parent
<u>Pre conditions</u>	Login to the system.
<u>Post conditions</u>	Parent can check tutors and check the booked tutor.
<u>Main success scenario</u>	1-parent click on view tutor. 2-system processing the query and display list of tutors
<u>Unsuccessful scenario</u>	1-Parent click on view tutor. 2-system processing the query and display an empty list because there isn't any tutor available.
<u>id</u>	<u>4</u>
<u>name</u>	Request demo lecture
<u>goal</u>	To allow parent request a demo lecture from tutor.
<u>initiator</u>	parent
<u>Pre conditions</u>	Login to system

<u>Post conditions</u>	System send request to tutor.
<u>Main success scenario</u>	1-parent click on request demo. 2-system will generate a form provides name of demo, name of tutor. 3-actor insert info and click submit. 4-system takes this request to data base and send request to tutor. 5-system generate successful message.
<u>Unsuccessful scenario</u>	1-parent click on request demo. 2-system will generate a form provides name of demo, name of tutor. 3-actor insert info and click submit. 4-system takes this request to data base and it doesn't match with any info of demos. 5-system generate un defined message.
<u>id</u>	5
<u>name</u>	Book tutor
<u>goal</u>	To allow parent book Tutor on the system
<u>initiator</u>	parent
<u>Pre conditions</u>	Login to system
<u>Post conditions</u>	Parent able to book a tutor from system
<u>Main success scenario</u>	1-parent click on book tutor. 2-system will display list of tutors 3-parent browse the tutors list and select a tutor. 4-system takes this select to data base. 5-system generate successful message.
<u>Unsuccessful scenario</u>	1- parent click on book tutor. 2-system will display list of tutors. 3-parent browse the tutors list but not selecting a tutor. 4-system takes this order to data base. 5-system generate un defined message.
<u>id</u>	6
<u>name</u>	Rate tutor
<u>goal</u>	To allow parent rate Tutor on the system.
<u>initiator</u>	parent
<u>Pre conditions</u>	Login to system
<u>Post conditions</u>	Parent able to rate tutor in system
<u>Main success scenario</u>	1- parent click on rate tutor. 2-system will display message that makes parent able to rate in it. 3- system takes the message to data base. 4- system generate successful message.
<u>Unsuccessful scenario</u>	1- parent click on rate tutor. 2-system will display message that makes parent able to rate in it.

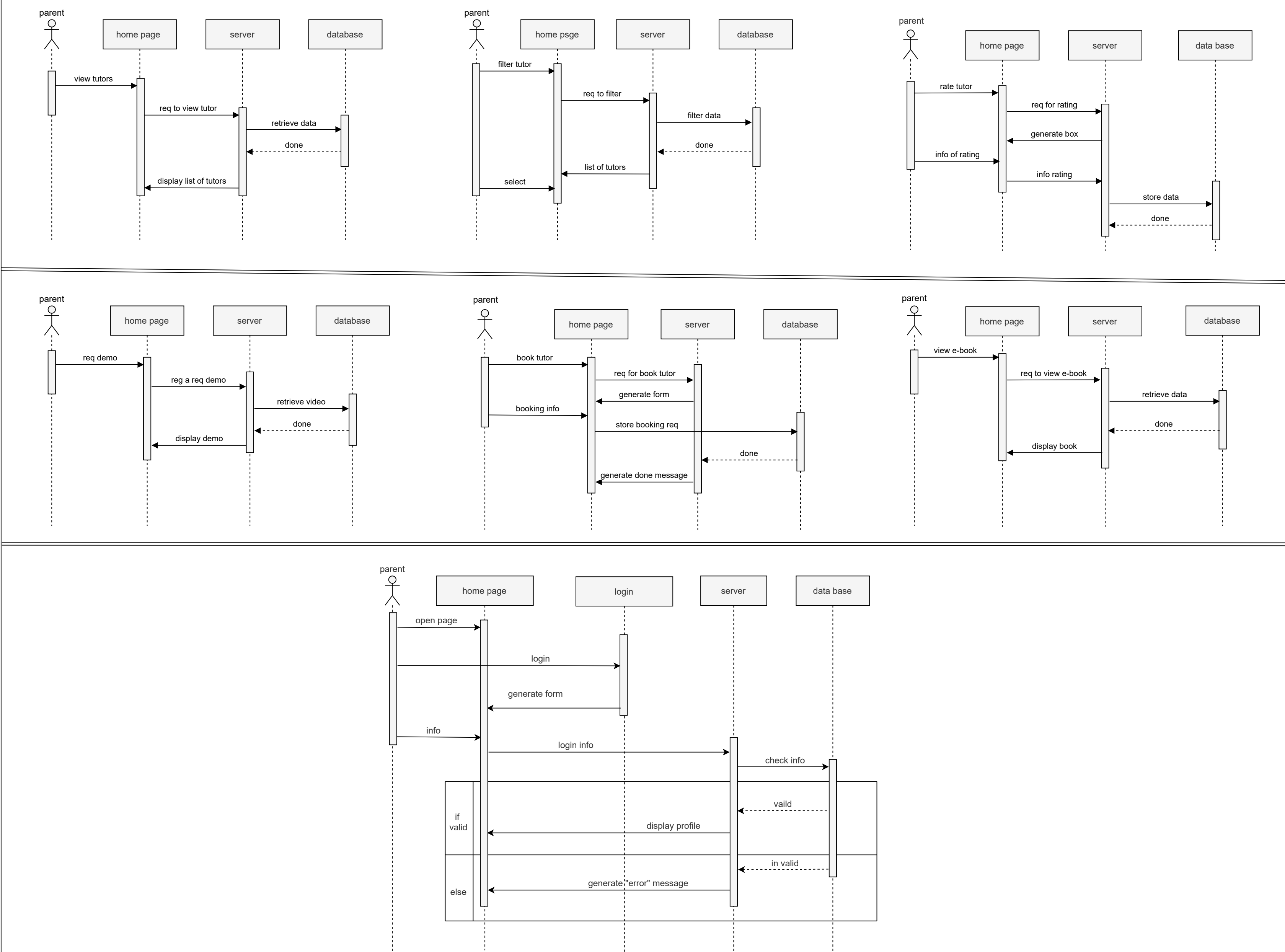
	<p>3- system takes the message to data base but parent did not rate.</p> <p>4- system generate un defined message.</p>
<u>id</u>	7
<u>name</u>	Check registration
<u>goal</u>	To allow Admin check for the registered parents in the system.
<u>initiator</u>	Admin
<u>Pre conditions</u>	Login to system
<u>Post conditions</u>	Admin able to check for registration.
<u>Main success scenario</u>	<p>1- admin click on Check registration.</p> <p>2-system processing the query and display list of registers tutors.</p>
<u>Unsuccessful scenario</u>	<p>1-admin clicks on Check registration.</p> <p>2-system processing the query and display empty list of registers tutors.</p>
<u>id</u>	8
<u>name</u>	Add new books
<u>goal</u>	To allow Admin add new books in the system.
<u>initiator</u>	Admin
<u>Pre conditions</u>	Login to system
<u>Post conditions</u>	Admin able to add new books.
<u>Main success scenario</u>	<p>1- admin click on add new books.</p> <p>2-system will display menu to add the information of the books like name and depart.</p> <p>3- system takes the information to data base.</p> <p>4- system generate successful message.</p>
<u>Unsuccessful scenario</u>	<p>1-admin click on add new books.</p> <p>2-system will display menu to add the information of the books like name and depart.</p> <p>3-admin inserts incompatible data type of information.</p> <p>4-generate error message.</p>
<u>id</u>	9
<u>name</u>	Update tutor profile
<u>goal</u>	To allow Admin update tutor profile in the system.
<u>initiator</u>	Admin
<u>Pre conditions</u>	Login to system
<u>Post conditions</u>	Admin able to update tutor profile.
<u>Main success scenario</u>	<p>1- admin click on update tutor profile.</p> <p>2-system will display the information of tutor [profile].</p> <p>3-admin insert info.</p> <p>4- system takes the information to data base.</p> <p>5- system generate successful message.</p>
<u>Unsuccessful scenario</u>	1- admin click on update tutor profile.

	<p>2-system will display the information of tutor [profile].</p> <p>3-admin insert incompatible data type of information.</p> <p>4- system generate error message.</p>
<u>id</u>	<u>10</u>
<u>name</u>	Add tutor
<u>goal</u>	To allow admin add tutor in system.
<u>initiator</u>	Admin
<u>Pre conditions</u>	Login to system
<u>Post conditions</u>	Admin able to add new tutor.
<u>Main success scenario</u>	<p>1- admin click on add tutor.</p> <p>2- system will display menu that has the information of new tutor like name, address and password, etc.</p> <p>3- admin insert incompatible data type of information.</p> <p>4- system takes the information to data base.</p> <p>5- system generate successful message.</p>
<u>Unsuccessful scenario</u>	<p>1- admin click on add tutor.</p> <p>2- system will display menu that has the information of new tutor like name, address and password, etc.</p> <p>3- admin insert incompatible data type of information.</p> <p>4- system generate error message.</p>
<u>id</u>	<u>11</u>
<u>name</u>	Check request for demo
<u>goal</u>	To allow tutor check request for demo lectures.
<u>initiator</u>	tutor
<u>Pre conditions</u>	Login to system
<u>Post conditions</u>	Tutor able to check request for demo lectures.
<u>Main success scenario</u>	<p>1- tutor click on check request for demo.</p> <p>2- system will display message that inform him if his request has been accepted or not.</p>
<u>Unsuccessful scenario</u>	<p>1- tutor click on check request for demo.</p> <p>2-system display message that inform him his request has been refused because this demo undefined.</p>
<u>id</u>	<u>12</u>
<u>name</u>	Check request of booking done.
<u>goal</u>	To allow tutor check request of booking done.
<u>initiator</u>	tutor
<u>Pre conditions</u>	Login to system
<u>Post conditions</u>	Tutor able to check request of booking done.
<u>Main success scenario</u>	<p>1- tutor click on check request of booking done.</p> <p>2- system will display message that inform him if his request has been accepted or not.</p>
<u>Unsuccessful scenario</u>	<p>1- tutor click on check request of booking done.</p> <p>2- system display message that inform him his request has been refused because request of booking this undefined.</p>

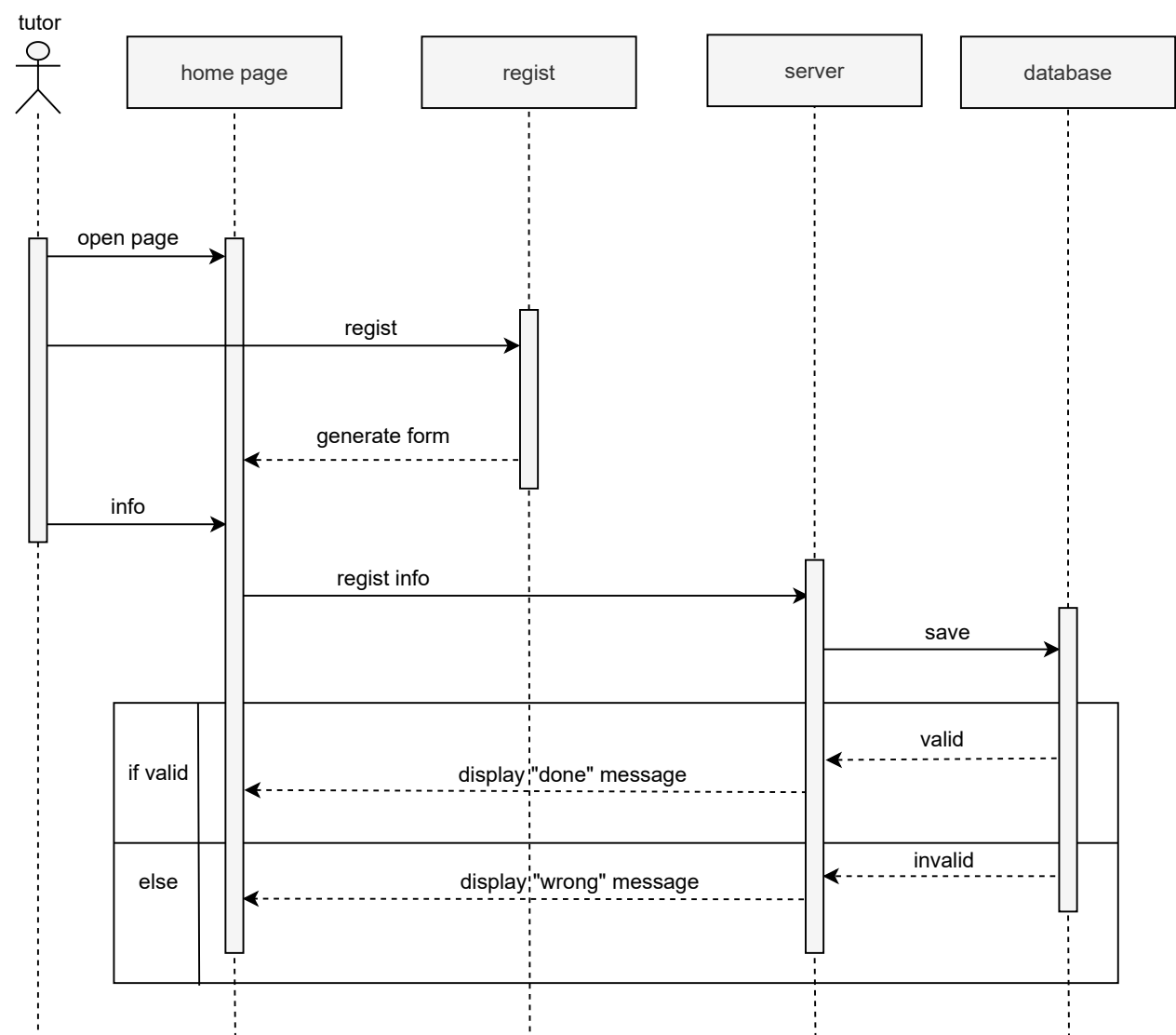
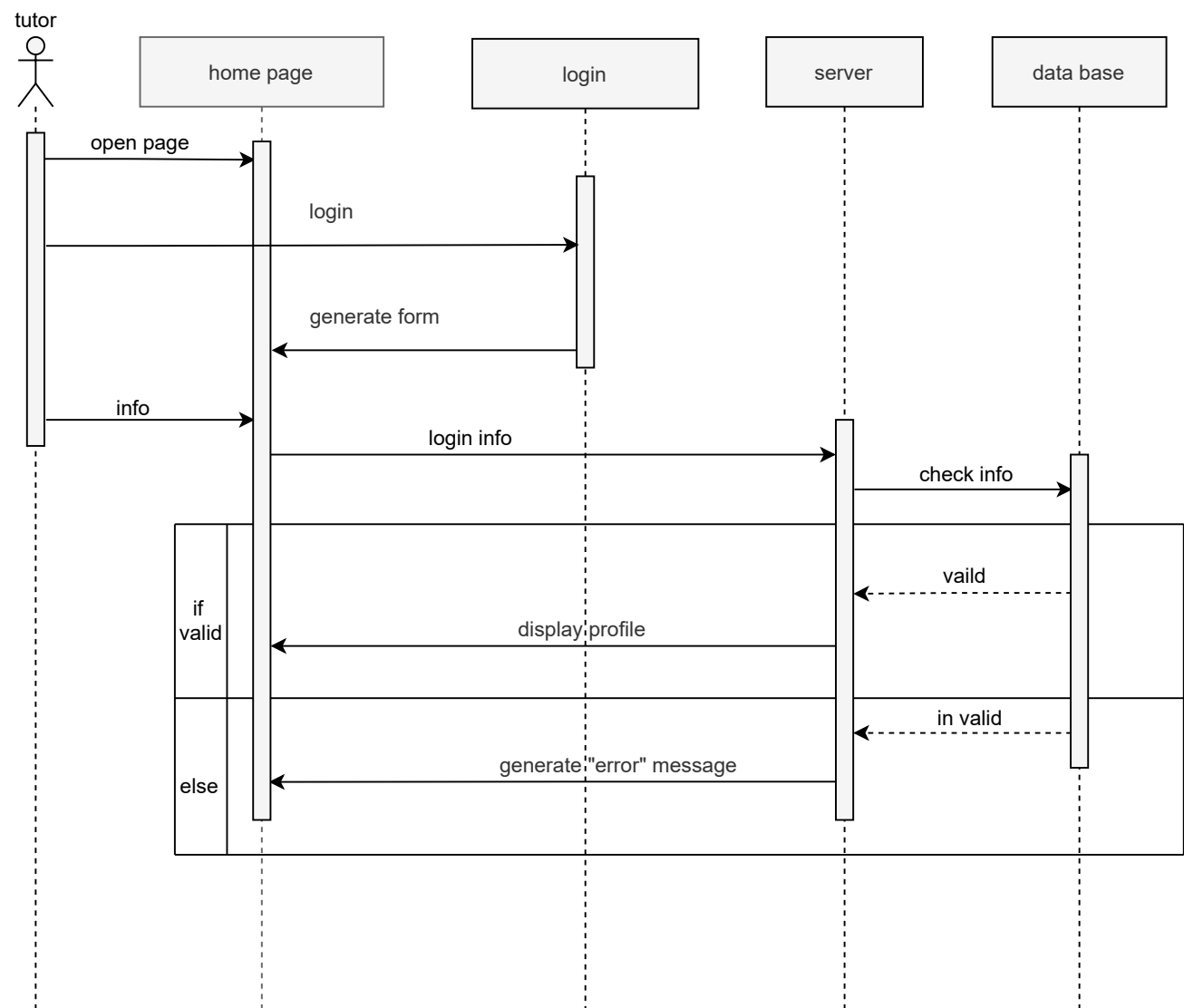
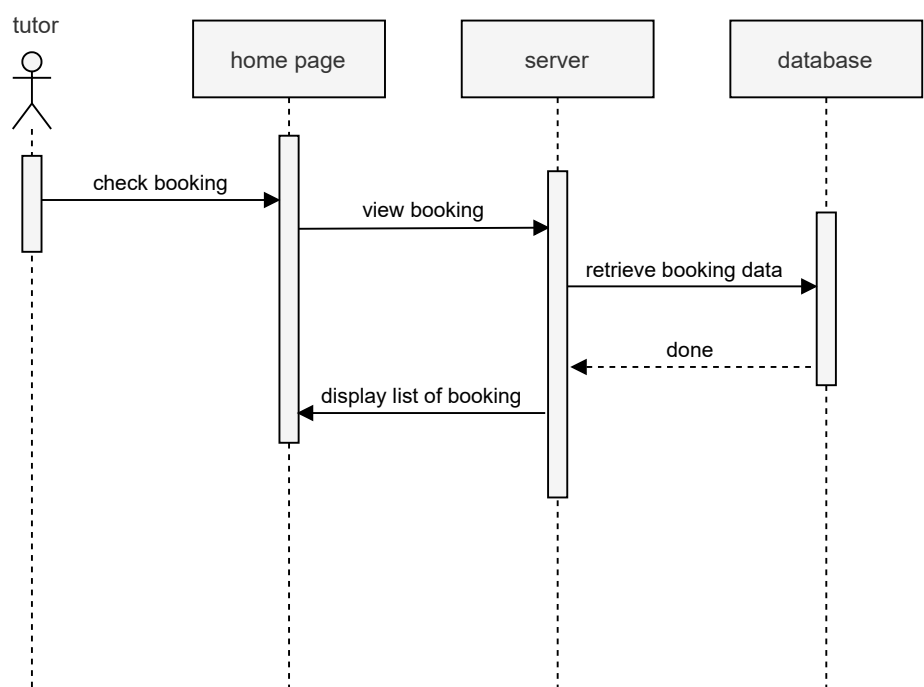
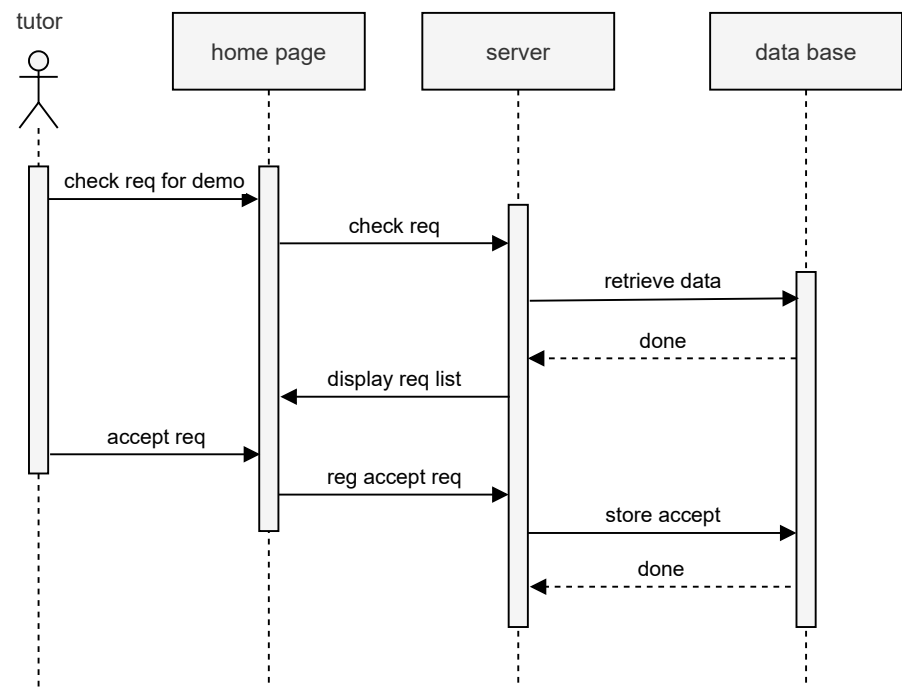
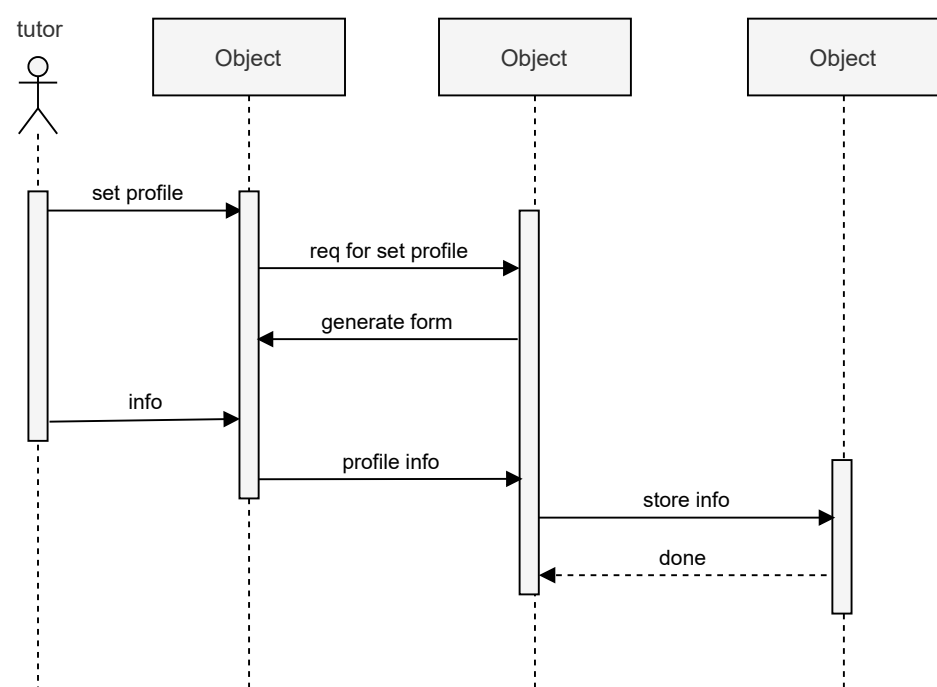
<u>id</u>	<u>13</u>
<u>name</u>	Set profile
<u>goal</u>	To allow tutor to set profile.
<u>initiator</u>	tutor
<u>Pre conditions</u>	Login to system
<u>Post conditions</u>	Tutor able to set profile.
<u>Main success scenario</u>	1- tutor click on set profile. 2- system will display menu that has the information of tutor like his name, address and profile. 3- tutor will select the profile he wants. 3- system takes the information to data base. 4- system generate successful message.
<u>Unsuccessful scenario</u>	1- tutor click on set profile. 2- system will display menu that has the information of tutor like his name, address and profile. 3- tutor will select the profile he wants. 4-tutor insert incompatible data type of the information. 5- system generate error message.
<u>id</u>	<u>14</u>
<u>name</u>	View e- book.
<u>goal</u>	To allow parent View e- book in system.
<u>initiator</u>	Parent
<u>Pre conditions</u>	Login to system
<u>Post conditions</u>	Parent able to View e- book.
<u>Main success scenario</u>	1- parent click on View e- book. 2-system will display form. 3-parent insert info. 4- system processing the query and display the book.
<u>Unsuccessful scenario</u>	1- parent click on View e- book. 2-system will display form. 3-parent insert info. 4- system processing the query and generate undefined book message.
<u>id</u>	<u>15</u>
<u>name</u>	Select and rate tutor.
<u>goal</u>	To allow parent to select and rate tutor in system.
<u>initiator</u>	Parent.
<u>Pre conditions</u>	Login to system.
<u>Post conditions</u>	Parent able to select and rate tutor.
<u>Main success scenario</u>	1- parent click on select and rate tutor. 2- system will display menu that has tutors also display message for rating them. 3- parent will select tutor and rate him. 4- system takes the information to data base. 5- system generate successful message.

<u>Unsuccessful scenario</u>	<p>1- parent click on select and rate tutor.</p> <p>2- system will display menu that has tutors also display message for rating them.</p> <p>4- system takes the information to data base. However, parent did not select or rating a tutor</p> <p>5- system generate un defined message.</p>
<u>id</u>	<u>16</u>
<u>name</u>	Filter tutors.
<u>goal</u>	To allow parent to filter tutors in system.
<u>initiator</u>	Parent.
<u>Pre conditions</u>	Login to system.
<u>Post conditions</u>	Parent able to filter tutors.
<u>Main success scenario</u>	<p>1- parent click on filter tutors.</p> <p>2- system will display list of tutors.</p> <p>3- parent will select a tutor.</p> <p>4- system takes the information to data base.</p> <p>5- system generate successful message.</p>
<u>Unsuccessful scenario</u>	<p>1- parent click on filter tutors.</p> <p>2- system will display list of tutors.</p> <p>3- parent didn't insert select a tutor.</p> <p>4- system generate error message.</p>
<u>id</u>	<u>17</u>
<u>name</u>	View the booked tutors.
<u>goal</u>	To allow parent view the booked tutors in system.
<u>initiator</u>	Parent.
<u>Pre conditions</u>	Login to system.
<u>Post conditions</u>	Parent able to view the booked tutors.
<u>Main success scenario</u>	<p>1- parent click on view the booked tutors.</p> <p>2-system processing the query and display list of booked tutors.</p>
<u>Unsuccessful scenario</u>	<p>1- parent click on view the booked tutors.</p> <p>2-system processing the query and display empty message because there aren't booked tutors.</p>
<u>id</u>	<u>18</u>
<u>name</u>	Log out.
<u>goal</u>	To allow user log out from the system.
<u>initiator</u>	User(parent, admin, tutor)
<u>Pre conditions</u>	Login to system.
<u>Post conditions</u>	User able to log out.
<u>Main success scenario</u>	<p>1-actor click on log out.</p> <p>2-system will close the profile.</p>
<u>Unsuccessful scenario</u>	<p>1-actor click on log out.</p> <p>2-system generate error cant log out from the system message because there is another pages belongs to system still open.</p>

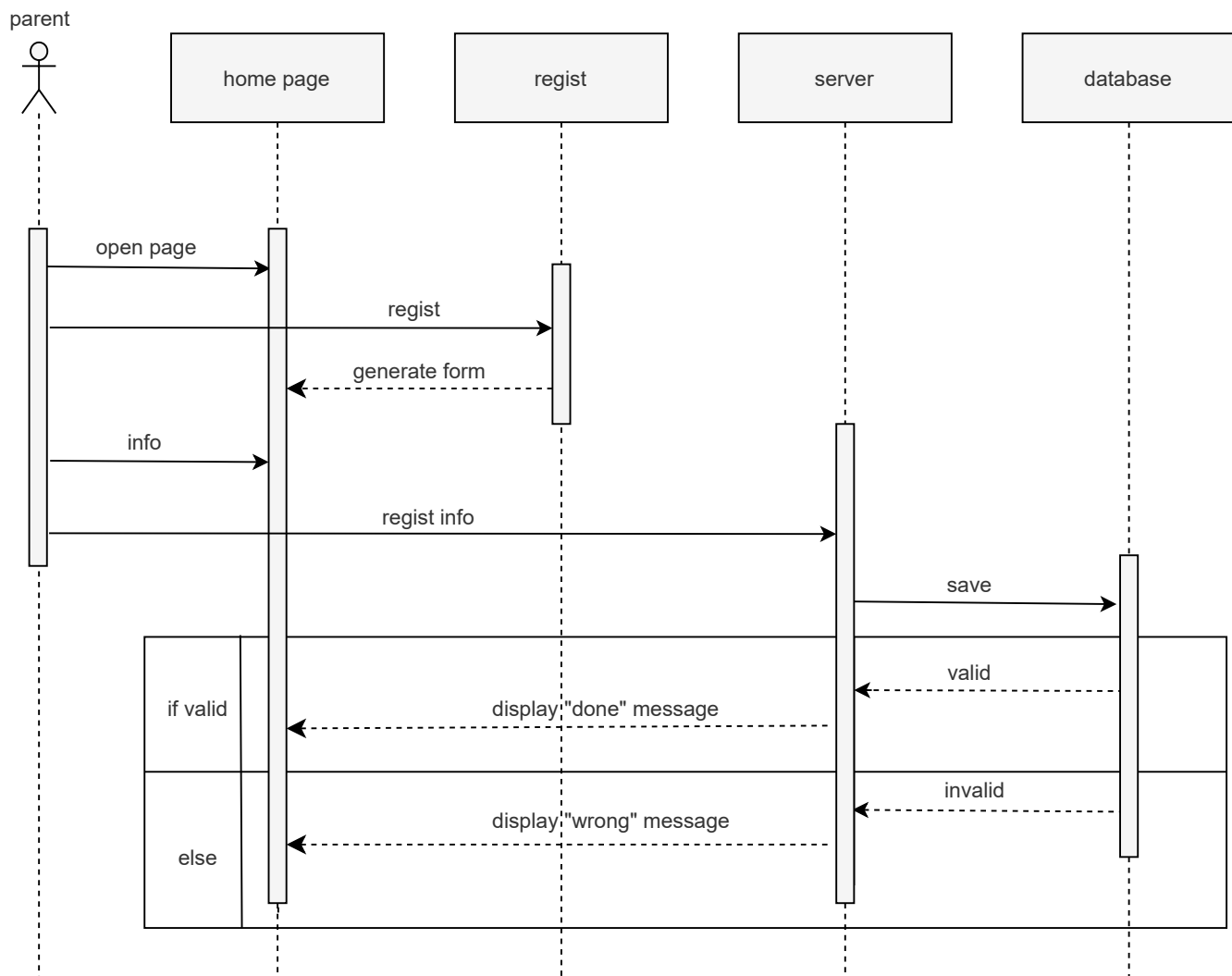
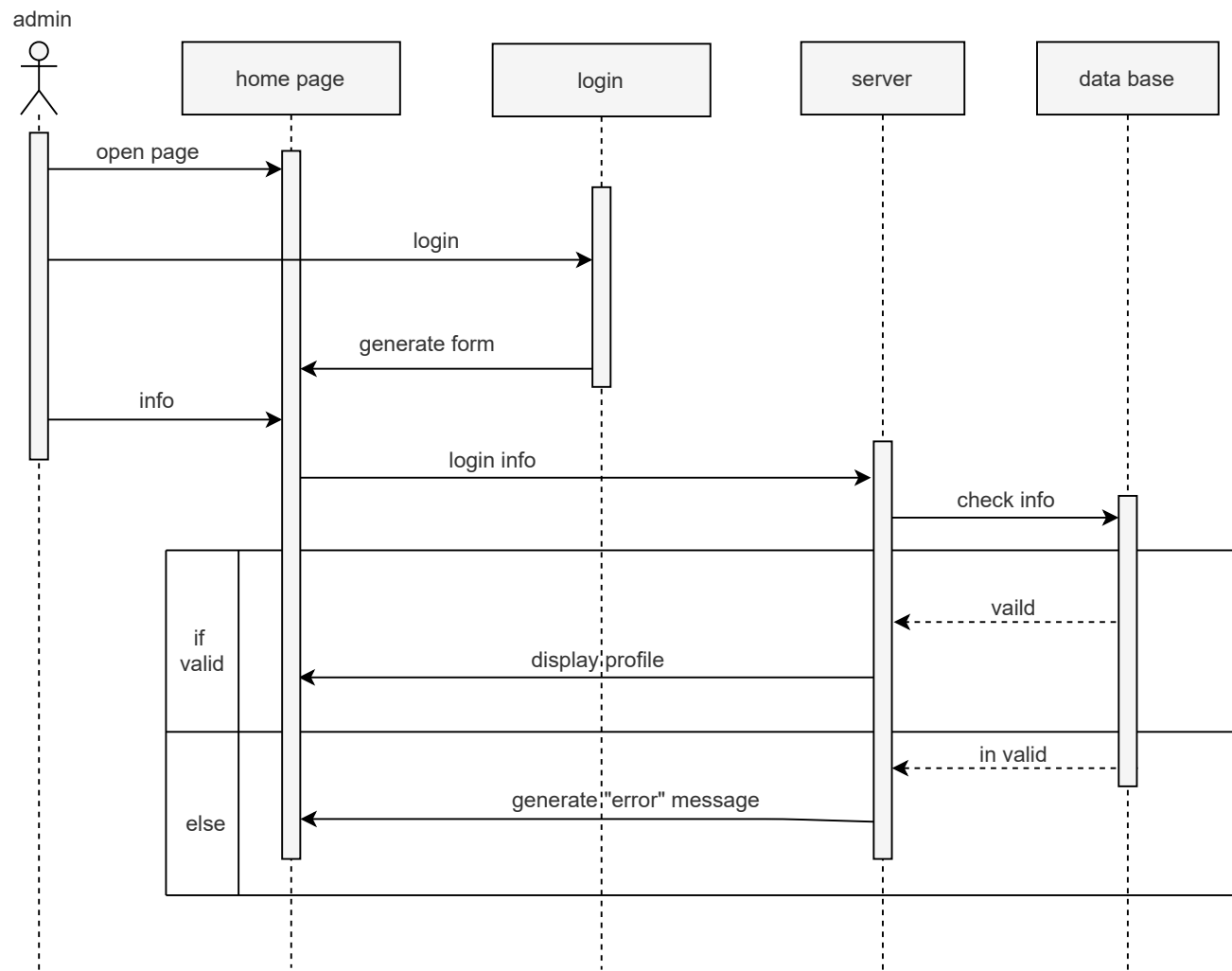
Sequence Diagram (Part 1).



Sequence Diagram (Part 2)



Sequence Diagram (Part 3)



Sequence Diagram (Part 4).

