0. General

0.1 is necessary to develop an online designer furniture: cabinets coupe, coupe doors, wardrobes.

0.2 site is an example of the current constructor http://myconstructor.ru/ (hereinafter SP)

Designer must be compatible (correct function) to:
0.3 All popular browsers and operating systems
0.4 mobile device (ios and android)
0.5 be embedded in social networks (VK ODNOKLASSNIKIKI FEYSBUK.) Through the iframe

0.6 should be implemented maximum protection against copying constructor code (based on the methods described herein http://habrahabr.ru/company/xakep/blog/128741/)

0.7 in the administrator's office should be implemented 3 access levels (administrator, company, client)

0.8 should be implemented by the user the ability to change the language of the Designer
0.9 should be implemented the ability to change the currency in the account settings of the "company"

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stages of development of the furniture:
1) Select the type of (built-in closet, cabinet wardrobe, corner wardrobe, door coupe, wardrobe)
2) construction of internal filling (for the coupe wardrobes and cabinets)
3) construction of the cabinet door (for the coupe and coupe doors cabinets)
4) User registration and preservation of the cabinet
5) calculation of the cost of the cabinet (occurs without the participation and hidden from the user)
6) shipping company created by the cabinet and the user

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Step 1 - Select the type of
1.1 The selection of the type of the cabinet defines a preset pattern:
1.2 for cupboard - bezel (fixed width of 100 mm) along the perimeter
1.3 for the body of the cabinet - full-length wall on the perimeter and bottom cap
1.4 for corner cabinet - 2 halves and "fold line" in the middle. Those. if the corner cabinet "expand" and make a "flat", the "fold line" - a place of junction 2 of the cabinet

halves - https://yadi.sk/i/qVBdjfOloC8hz

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Stage 2 - the internal content
functions similar to a joint venture
2.1 The constitution of the possibility of cabinets with the mouse
2.2 The ability to specify the dimensions "by hand" - with keyboard input
2.3 The constitution of the possibility of cabinets with a width and height of the depth the same as on-site example

functional differences in terms of design possibilities
2.4 Ability to change the depth of the elements that own wardrobe may be the depth of 600mm, and a row of shelves must be made within a depth of 300 mm everything else as is.
2.5 the ability to add boxes of different sizes (200mm, 250mm, 300mm, 400mm). The joint venture is only one standard size
2.6 the use of the top cover with the front overhang (about 100-150mm) in order that there would be embedded lighting (spotlights, etc.)
2.7 The ability to change the type of the side and top walls - can be full-size (for a given depth of the cabinet) can be trim panels (100 mm). And for each of the 4 walls of the type can be set without depending on the type of the other walls
2.8 for enclosure cabinets should be able to select the type of bottom - or "bottom socket" or "bottom with legs"
2.9 The selection of the bottom should trigger an automatic recalculation of the other elements. Example: if you set the total height of the body of the cabinet 2500mm height, therefore must be recalculated if there are legs or plinth 100mm, etc.
2.10 The possibility of constructing a curved shelf (both left and right). Just as it implemented in SP
2.11 Ability to add additional elements: the pantograph, the pantograph single, horizontal bar, vertical bar, cellular shelf for shoes (analogue boxes height 200-250-300-400mm), tie, cell baskets)
2.12 to choose and change the color of the cabinet materials (about 50 standard colors)
2.13 in forming the internal filling dragging the mouse should be implemented binding element to a predetermined point (1/2, 1/3, 2/3, etc.) and existing surrounding elements (shelves, outer walls, etc.)
2.14 also when forming the internal filling should be able to manually enter (via the keypad) the exact numbers of elements size and position of these elements. For cases where the binding to the preset point is not relevant
2.15 when forming the internal filling is to be implemented by the formation of the protection element configurations that can not exist in reality - applying elements "freeze" elements in the air and so on. This should be implemented including by "bind" elements as you drag the mouse to the existing surrounding elements (shelves, outer walls, etc.)

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Step 3 - doors

3.1 for all cabinet doors should be the same width
3.2 The number of doors depends on the width of the cabinet
3.3 material filling each door may be different from the others. Those. filling doors regardless
3.4 each door may be a continuous (from one material) and the component - may be both vertical and horizontal separators
3.5 should be implemented the ability to select the color framing a door profile
3.6 should be implemented the ability to select the type of framing a door profile
3.7 in the formation of the filling door must be implemented binding element to a predetermined point (1/2, 1/3, 2/3, etc.) and existing surrounding elements (framing the door frame, etc.)
3.8 also in the formation of the filling door must be able to manually enter (via the keypad) the exact numbers of elements size and position of these elements. For cases where the binding to the preset point is not relevant
3.9 The user must be able to upload your own texture (image) for the formation of the filling door. It is important that they are correctly scaled regardless of the original size
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Step 4 - User registration and preservation of the cabinet
4.1 The user enters their data (name, email, phone), and presses the button "receive payment"
4.2 After sending data to create an account-level "client" in the constructor. Password and registration data is sent to the user specified email
4.2 Cabinet created is stored in the user's account with the possibility of changes.
4.3 after the user registration and preservation of the cabinet, he can log in under their own account registration data and load one of the saved in his account cabinets for further changes
4.4 while maintaining the cabinet is assigned a unique identification number

Step 5 - calculation of the cost of the cabinet
5.1 The calculation of the cost of the enclosure similar to the calculation in the joint venture
5.2 is taken into account when calculating the amount of wasted materials and elements
5.3 There are 2 types of final figures - the cost price and selling price
5.4 The cost price is calculated based on the price list that is stored in the "company" account
5.5. selling price is calculated as the product costs and the trading margin (which is specified in the settings of "firm" Account
5.6 when calculating the cost must also take into account the elements that are not displayed in the designer. For example on one of compartment door 2 is the top roller mechanism, 2 lower and 1 single door stopper,

Step 6 - Sending a finished cabinet
6.1 if user account "company" is enabled to send the sketch "client" of the cabinet, after

the registration and preservation of the cabinet, pdf e-mail is sent to the user with a sketch of the cabinet

6.2 if user account "company" option is enabled the calculation of the cost of sending the "client" of the cabinet, after the registration and preservation of the cabinet, pdf sent to the sketch of the cabinet to the user's mail, and its sales value

6.3 If the account settings "firm" enabled "does not send the sketch and price", the mail client only sent a letter with the text, which creates a "firm" in his office. Without sketch and pricing

6.4 at the same time sent to the user, when sending a saved cabinet, "the company" to the addresses of mailboxes that are listed in the "company" settings

6.5. sending the company is subject to: pdf with a sketch of the cabinet, the calculation of its cost and value, the list of necessary materials and components with the amount of each (the layout of the materials)

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7. Administrator Cabinet

7.1 Administrator's office should be implemented 3 access levels (administrator, company, client)

functional "Admin" access level
7.2 overall management of the site - the standard functionality of CMS website - editing of pages, etc.
7.3 connectivity of a type constructor (compartment cabinets, doors, wardrobes) to the accounts of the "company"
7.4 The ability to set the date off of a type constructor for type 'firm' accounts
7.5 The management and control of payments mechanism (described below)
7.6 display statistics regarding use of the service:
- The ability to set various time ranges (day, week, month, etc.)
- Displays the number of each type of user, use the constructor

level functional access "firm"
7.6 The ability to create and edit their own base materials to form the filling door: own categories, sub-categories, materials and loading textures in this base
7.7 The possibility of creating and editing its own material base profiles of doors: your own categories, sub-categories, materials and loading textures in this database. When editing a base when you hover over the material should show its name - for easy editing
7.8 The possibility of creating and editing its own material base of the main colors for the creation of external and internal walls of the filling
7.9 The possibility of changes in the cost of materials in the database in accordance with the list https://yadi.sk/i/tH6FMPWQoCQ9j and similarly JV
7.10 The ability to view of the "customer" accounts that have been registered by the designer of the company: Registration data and stored in wardrobes
7.11 The ability to edit saved cabinets clients

7.12 The ability to view the cost of cabinets (cost of materials) customer retention
7.13 The possibility of changing the transfer cabinet element names in other languages. Similarly, the joint venture
7.14 the possibility of currency changes in the price list. Similarly, the joint venture
7.15 The company's personal data changes (logo, contacts, mail for applications) that are displayed in the constructor and the office of the "client"
7.16 The ability to edit instructions for using the designer with the ability to insert video
7.17 The possibility to pay for the designer. The mechanism is described below

functional level "client" access
7.18 saving and editing products
7.19 is very important that the client was not able to print the cabinet sketch, if it is disabled in the "company" settings
7.20 is very important that customers have not had an opportunity to see the layout of materials

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8. The mechanism of payments

8.1 Payment will be made from the personal account "company" level
8.2 The opportunity for various periods of different payment options for the designer will be implemented
8.3 Payment will be made through the built-in form of Yandex Money https://yadi.sk/i/waf2BNvQoc5pe
8.4 In the account-level "administrator" must be implemented customer base (level of company accounts), which in addition to the contact information should be stored payment information
8.5 After the service customers pay for a certain period information should fall into the customer base in the corresponding field - a set of paid and for how long
8.6 on the basis of the customer base should automatically connect / disconnect for level designer "Company" accounts. Those. after payment has passed, there is an automatic inclusion of the service for a particular account of the company
8.7 on the basis of the customer base should be automatically notified businesses about the need to pay for a certain time.
8.8 The administrator shall be possible to change the scenario (number, frequency and text) reminders of payment in your account
8.9 should be a mechanism to demo "mode. After registration, the firm can use the full functionality of the constructor for 7 days without payment. At this time, all saved sketches must be present watermark - website address of the company provided during registration. Example https://yadi.sk/i/hEKqmghapiDZm. After 7 days, the possibility of use by functional without paying the designer must be blocked

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9. The project site

- Main (service overview page)
- Landing (selling) page
- Blog (article)
- Forum (for the "firm" type accounts)
- Some static content pages (presumably: contacts, about us)