LXNP.400201.203 PP MyRing Filter Original head: RingNode # image: Mat ring_size: int create» Original (? : Mat) name: std::string «create» MyRing (other: MyRing) RingNode «destroy» MyRing () contrast: int push (data : T) # saturation: int next: RinaNode # clarity: int pop_head () **<-----**Gray prev: RingNode temperature: int get_data (): T «create» RingNode () next_node () «create» Gray (? : Mat) apply (): Mat «create» RingNode (data : T) prev node () get_filter_name (): std::string empty (): bool get_brightness (): int size (): int get contrast (): int + clean () get_saturation (): int Inverse «operator» [] (index : int): T get_clarity (): int get_temperature (): int «destroy» Filter () CustomFilter MainWindow «create» CustomFilter (? : std::string, ? : Mat, ? : int, ? : int, mythread: MyThread int. ? : int. ? : int) current_process: PROCESSES filters: MyRing MyThread filter_number: int queue: std::queue<Operation *> - qtlangtransl: QTranslator «create» MyThread () - FN_W: FilterName_window - push (? : Operation) graphicsScene: QGraphicsScene signalGUI (? : cv::Mat) # pixmap: QGraphicsPixmapItem terminateThread () + «create» MainWindow (parent : QWidget) «destroy» MainWindow () Oper temperature Oper contrast - change_image (cv_im : cv::Mat) start_proc (QPath : QString) FilterName_window create» Oper_temperature (val : int, image : Mat) create» Oper_contrast (val : int, image : Mat) main proc (value : int) ilters: MyRing < Filter *> end main proc () Operation filter name: std::string save_image () value: int set_filters (? : MyRing<Filter *>) set_new_image () image: Mat apply_filter () # filter_name_got () «create» FilterName_window (parent : QWidget) + exec (): Mat rotate_left () rotate_right () set_filters (main_filters : MyRing) is_name_in_filters (filter_name : std::string): bool - set_rec_opened_butts () save_filter_name () + set_curr_proc (n : PROCESSES) Oper_saturation Oper_clarity get_curr_proc (): PROCESSES get_filter_name (): std::string changeEvent (e : QEvent) set_slider_limits () «create» Oper_saturation (val : int, image : Mat) «create» Oper_clarity (val : int, image : Mat) + prepare_image () - set_filter_number (n : int) set filters () save_filters () set_filters_buttons () image_info ViewWithoutWheel Oper_brightness next_prev_filter (n : int) # start_image: QPixmap «create» ViewWithoutWheel (parent : QWidget = 0) «create» Oper_brightness (val : int, image : Mat) PROCESSES get_filtered_image (n : int): Mat image_in_proc: QPixmap get_filter_name (n : int): std::string BRIGHTNESS brightness: int - set_deleteF_enabled (filter_name : std::string) CONTRAST # contrast: int - back from filters () SATURATUIN saturation: int FILTER delete_filter () CLARITY # clarity: int IconautosizePushButton add_filter () TEMPERATURE INVERSE # temperture: int - show_pressed_button () «create» IconautosizePushButton (parent : QWidget = 0) ROTATION # filter: FILTER ORIGINAL set_connections () set_image_path (s : QString) GRAY FILTER - changeEvent (e : QEvent) CUSTOM NON get_image_path (): QString change_language (Ing : Cpp.char) ГУИР. 400201.203 РР Лит. Масса Масштаб Подп. Дата Изм. Лист № докум. Приложение «Фоторедактор» Разраб. Болашенко Диаграмма классов Богдан Пров. Лист Листов Т. контр Реценз. ЭВМ, гр. 250502 Н. контр